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ABSTRACT

Current data on graduate student support and manpower resources in graduate science education are important to science administrators, educators, and others concerned with the education of highly qualified scientists and engineers and other related manpower issues. They are also of interest to prospective graduate students, vocational counselors, and others similarly concerned with financing higher education and with identifying career opportunities in universities. This report summarizes data submitted for fall 1970 by 3,071 doctorate science departments of 227 institutions applying for NSF traineeship grants for 1971. The data show that: (1) full-and parttime graduate enrollment declined 2% from 1969 to 1970, after increasing 3% during 1967-68 and 2% during 1968-69; (2) of the 146,000 graduate students enrolled full-time in 1970, 28% were supported by fellowships and traineeships, 27% were self-supported, 24% had teaching assistantships, and 21% had research assistantships; (3) the departments in the study were staffed with 58,000 faculty members of which 27% were in life sciences, 20% in engineering, 19% in the physical sciences, 17% in the social sciences, 10% in the mathematical sciences, and 6% in psychology; and (4) there were 8,900 postdoctoral appointments of which 42% were concentrated in the physical sciences and 41% were in the life sciences. (HS)

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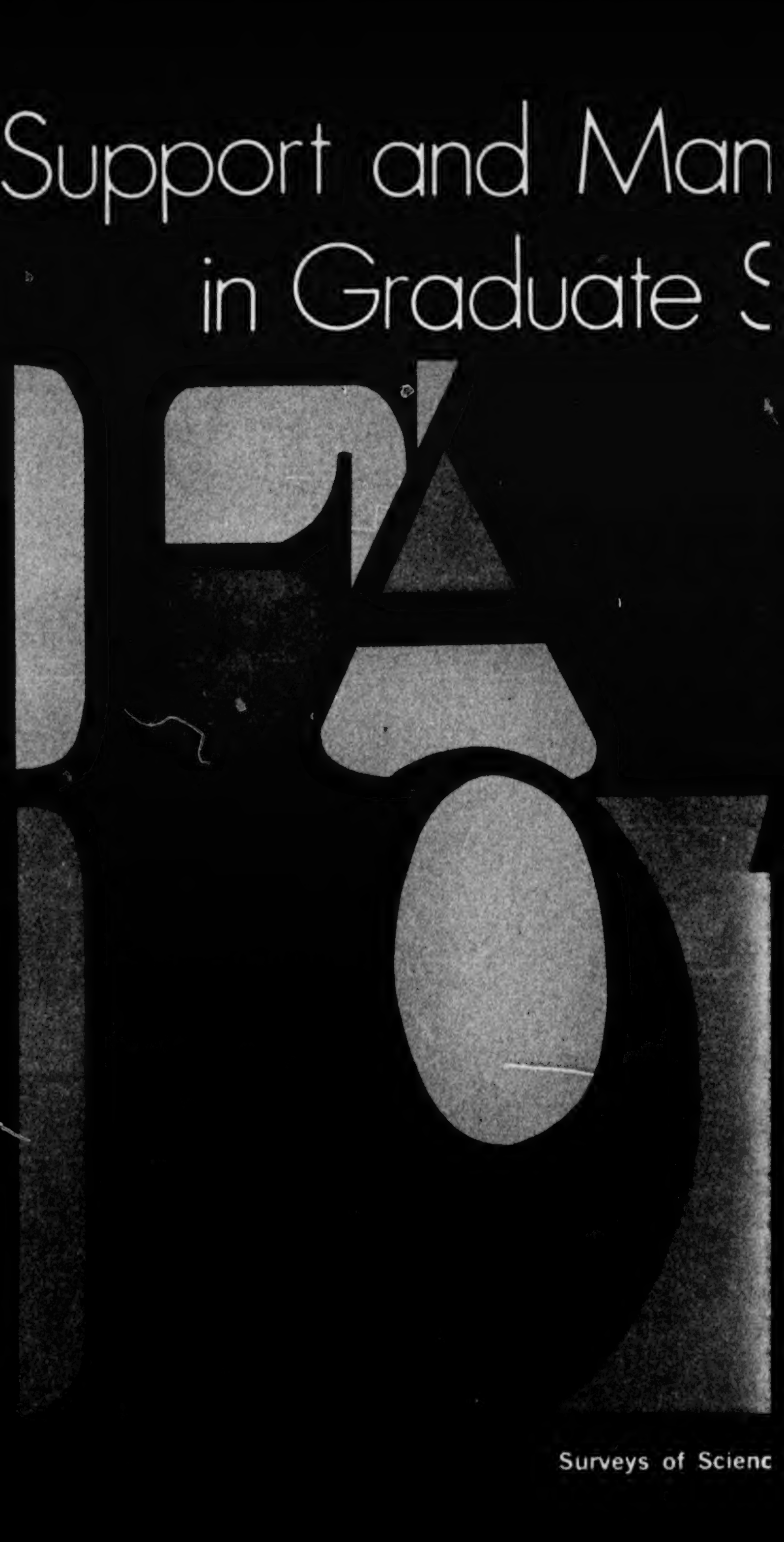

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Support and Manpower Resources in Graduate Science Education

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acknowledgments

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GENERAL NOTES

- This report summarizes data submitted for fall 1970 by 3,071 doctorate science departments of 227 institutions applying for NSF traineeship grants for 1971.
- Trend statistics were based on information received from 2,236 doctorate departments submitting data for each of the years 1967 through 1970.
- The phrase "graduate enrollment" refers to the total of full- and part-time students.
- The term "support" as used here refers always to **major** support of $1,200 or more, excluding tuition. In cases of multiple support, the applicant was instructed to report only the largest amount and to count a graduate student only once under one category.
- "Institutional support" refers always to financial assistance from institutions themselves and/or from State and local governments.
- The term "self-support" includes personal savings, educational loans, and financial help from families.
- "All other sources" includes financial support from industry, private nonprofit foundations, foreign sources, and all other miscellaneous sources.
- Data shown for 1970 refer to the fall of the year.
- Details may not add to totals because of rounding.
- All data shown in percent terms are rounded to the nearest whole number in text and charts but are shown in tables to one decimal.

FOREWORD

Current data on graduate student support and manpower resources in graduate science education are important to science administrators, educators, and others concerned with the education of highly qualified scientists and engineers and other related manpower issues. They are also of interest to prospective graduate students, vocational counsellors, and others similarly concerned with financing higher education and with identifying career opportunities in universities.

Current information on the types and sources of graduate student support is particularly important today in view of the pressures on universities resulting from inflation, failure of public and private financial support to keep pace with demands for higher education, and changing priorities in the allocation of public funds. The present report provides some insight into the changing patterns of public and private support of graduate education in doctorate science departments since it presents basic data which will be useful in the assessment of probable effects of current policies and practices on future graduate enrollment levels. For example, the policy shift from direct support of graduate students by Federal agencies to indirect support through funding of research grants and contracts can be evaluated in terms of probable research support levels.

This fall 1970 report on graduate enrollment in doctorate science departments is the fourth in a series of published reports presenting data submitted in traineeship grant applications by doctorate-granting institutions. It was prepared in the National Science Foundation's Division of Science Resources Studies. The statistics upon which the report is based were supplied by the Division of Graduate Education, Howard D. Kramer, Division Director. Special acknowledgment is accorded Dr. Douglas S. Chapin, Program Director, Graduate Fellowships and Traineeships Program, whose cooperation and assistance contributed greatly to the preparation of this report.

Charles E. Falk, Director
Division of Science Resources Studies

July 1971

CONTENTS

Page

SUMMARY VI

SECTION

I. GRADUATE ENROLLMENT IN DOCTORATE SCIENCE DEPARTMENTS 1

II. TYPES OF MAJOR SUPPORT OF FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS 9
    Fellowships and Traineeships 14
    Research Assistantships 16
    Teaching Assistantships 18
    Other Types of Support 20

III. SOURCES OF MAJOR SUPPORT OF FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS 22
    U.S. Government 25
    Institutional Support 29
    Self-support 31
    All Other Sources 32

IV. FACULTY AND POSTDOCTORALS IN DOCTORATE DEPARTMENTS 34
    Faculty 34
    Postdoctorals 37

APPENDIXES

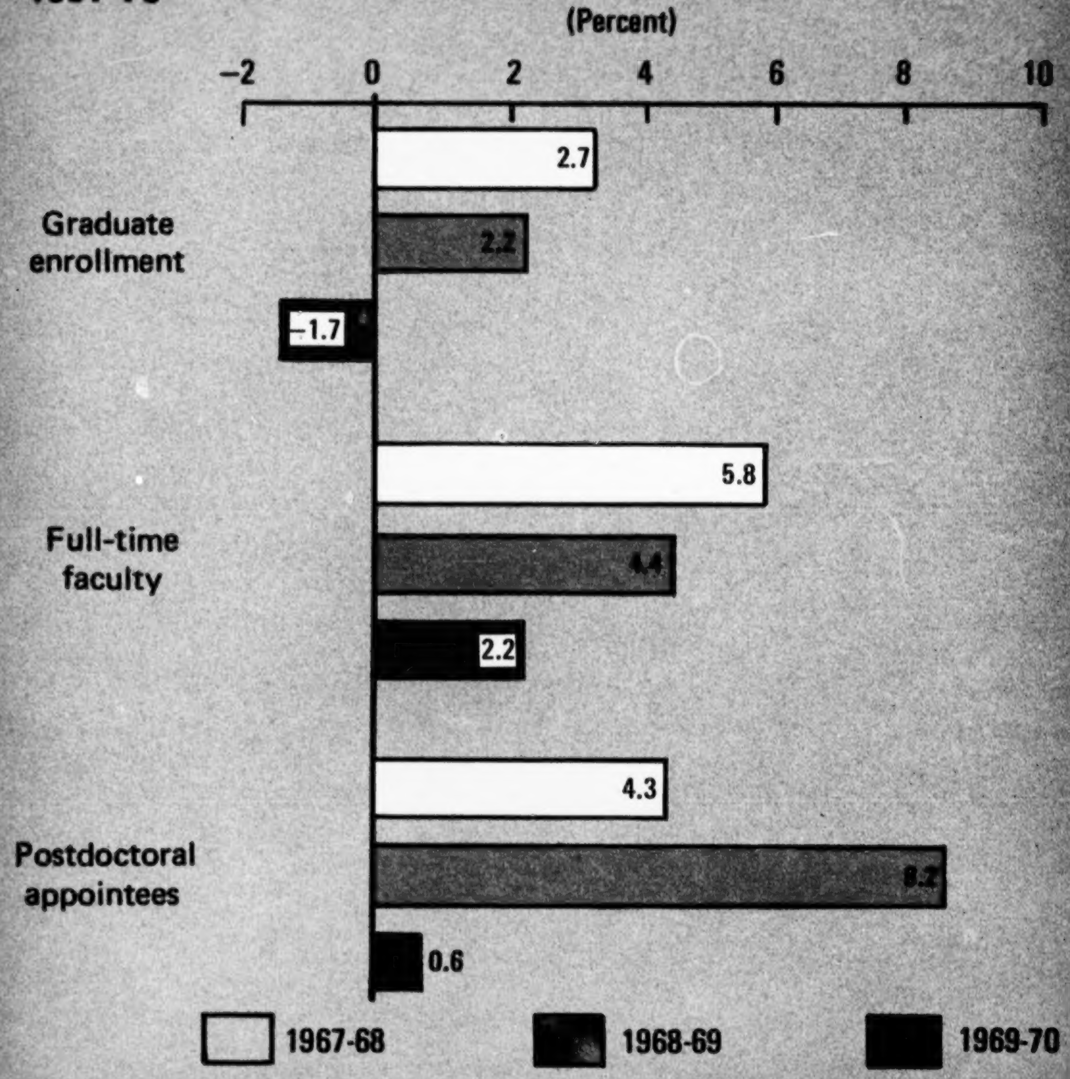
A. Technical Notes 43

B. Institutions Participating in the Graduate Traineeship Program 53

C. Statistical Tables 55

D. Instructions and Consolidated Departmental Data Sheets (NSF Form 345)—Doctorate Departments 97

Percent change in graduate enrollment, full-time faculty, and postdoctorals in science doctorate departments, 1967-70



Note: Based on 2,236 doctorate departments reporting in each of the 4 years.

SOURCE: National Science Foundation (appendix tables C–13, C–16, and C–17.)

SUMMA

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Enrollment status — F
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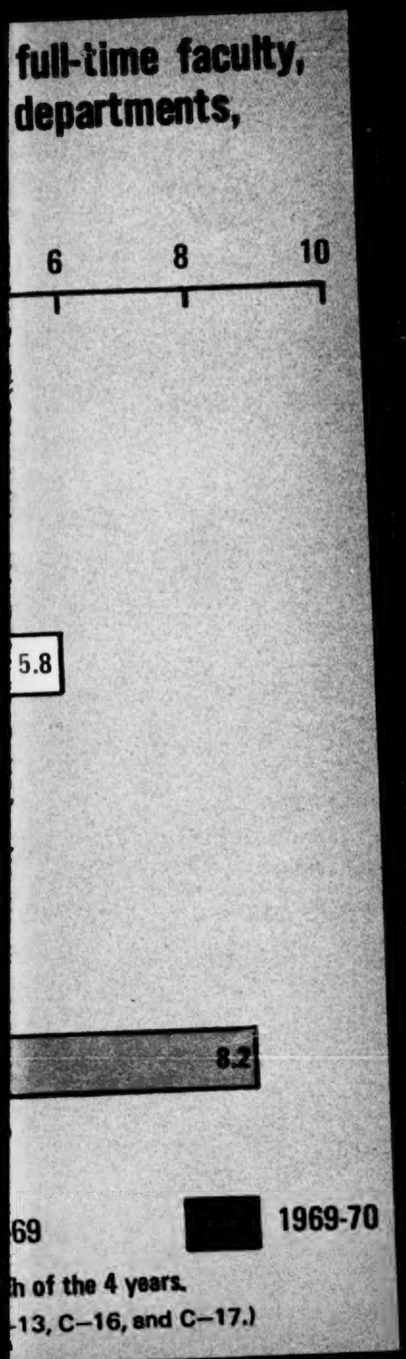

SUMMARY

NUMBER OF SCIENCE GRADUATE STUDENTS, FALL 1970

The 3,071 science doctorate departments of 227 universities applying for NSF traineeships enrolled 188,800 full- and part-time graduate students in the fall of 1970. The principal characteristics of graduate enrollment in these doctorate departments were the following:

Area of science — Engineering, 27 percent; social sciences, 21 percent; physical sciences, 18 percent; life sciences, 18 percent; mathematical sciences, 9 percent; and psychology, 8 percent.

Enrollment status — Full-time students, 77 percent; part-time students, 23 percent.

Citizenship — U.S. citizens, 82 percent; foreign students, 18 percent.

Level of study — First-year students, 34 percent; beyond-first-year students, 66 percent.

ENROLLMENT TRENDS, 1967-70

Full- and part-time graduate enrollment, in 2,236 doctorate departments which applied for NSF traineeships in each of the years 1967-70, declined 2 percent from 1969 to 1970, after increasing 3 percent during 1967-68 and 2 percent during 1968-69. The following are some of the principal trends in graduate science enrollment in recent years:

Area of science. Graduate enrollment tended to decline in the physical and mathematical sciences and engineering and to increase in the social and life sciences and psychology.

Enrollment status. The overall proportion of full- to part-time enrollment did not vary much during 1967-70. However, year-to-year changes in the absolute numbers of part-time students enrolled fluctuated widely within the various areas of science during the period.

Citizenship. The enrollment of foreign graduate students increased substantially during 1967-70, while the number of students of U.S. citizenship declined.

Level of study. The number of first-year students enrolled full time was 3 percent lower in 1970 than in 1969, after increasing more than 5 percent the previous year. All areas of science except engineering experienced this declining rate. Only a slight increase, less than 1 percent, was reported in beyond-first-year enrollment of full-time students during 1969-70, with psychology showing the highest rate of increase.

FINANCIAL SUPPORT OF FULL-TIME GRADUATE STUDENTS

Types of major support. Of the 146,000 graduate students enrolled full time, 28 percent were supported by fellowships and traineeships in 1970. Ranking next in terms of numbers of graduate students supported were "other" types of support, principally self-support, 27 percent; teaching assistantships, 24 percent; and research assistantships, 21 percent.

Rather consequential shifts occurred in the mechanisms utilized by graduate students to finance their education in recent years. The number of fellows-trainees declined 8 percent and the number of research assistants, less than 1 percent from 1969 to 1970. The foregoing declines were counterbalanced in part by a 4-percent increase in teaching assistants and a 2-percent increase in full-time students utilizing "other" mechanisms, primarily self-support.

Sources of support. Four-fifths of
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1970; the remaining one-fifth were sel
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FULL-TIME FACULTY

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In contrast to the 2-percent declin
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POSTDOCTORALS

Postdoctoral appointments in
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the total.

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Sources of support. Four-fifths of the full-time graduate students received major financial assistance of $1,200 or more per year from outside sources in 1970; the remaining one-fifth were self-supporting. The leading sources of outside financial assistance, in terms of the proportion of full-time students supported, were institutional support, 37 percent; the Federal Government, 34 percent; and other outside sources, such as industry, private foundations, and foreign organizations, 9 percent.

The decline in Federal support and growth of self-support were two important developments in graduate student support during 1967-70. The 1969-70 decline of 6 percent in the number of students with Federal stipends was the same as in 1968-69, and somewhat higher than the 2-percent decline from 1967 to 1968. The sizable drop in the number of federally financed fellowships-traineeships accounted for the major share of the decline in Federal support. However, the number of federally financed research assistantships also declined throughout 1967-70.

FULL-TIME FACULTY

The science doctorate departments in this study were staffed with 58,000 faculty members. They were distributed among areas of science as follows: Life sciences, 27 percent; engineering, 20 percent; physical sciences, 19 percent; social sciences, 17 percent; mathematical sciences, 10 percent; and psychology, 6 percent.

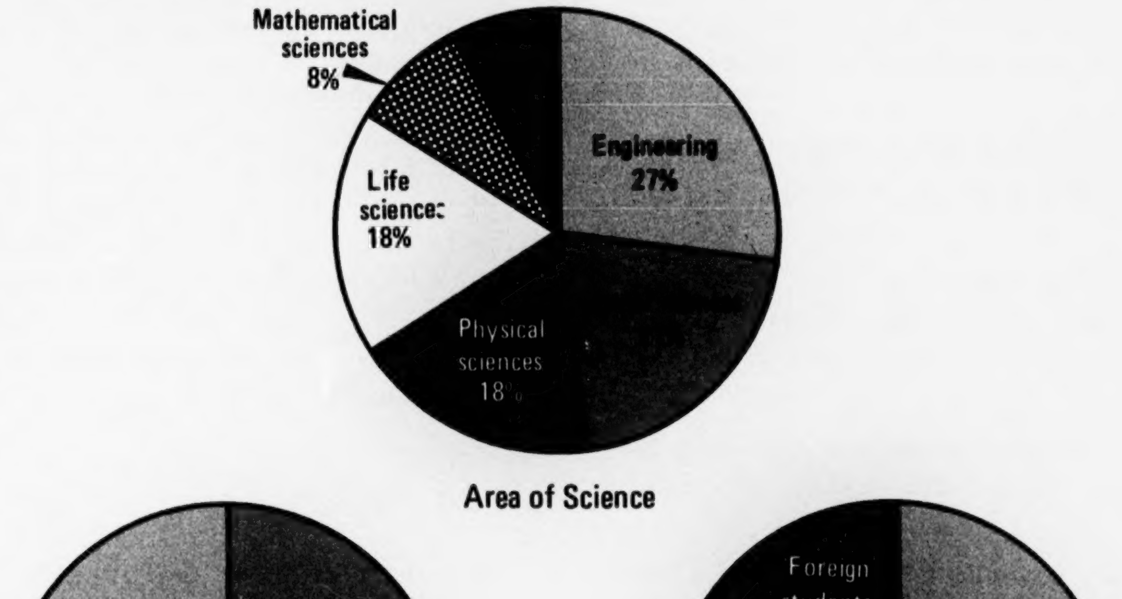
In contrast to the 2-percent decline in graduate enrollment between 1969 and 1970, full-time faculty increased 2 percent. Throughout the 4-year period covered in this report, the number of full-time faculty has continued to increase, though more slowly each year.

POSTDOCTORALS

Postdoctoral appointments in doctorate science departments totaled 8,900. These appointments were most heavily concentrated in the physical and life sciences, which accounted for 42 percent and 41 percent, respectively, of the total.

In departments applying for NSF traineeships in each of the 4 years, 1967-70, the less than 1-percent increase from 1969 to 1970 contrasted markedly with the substantially higher annual rates of increase in postdoctoral appointments during 1967-69.

Selected characteristics of graduate enrollment in science doctorate departments, 1970



Area of Science

Enrollment Status

Citizenship

Level of Study

SOURCE: National Science Foundation (appendix tables C-1, C-2, and C-4)

SECTION I.

graduate enrollment in doctorate science departments

This section of the report features the following four principal characteristics of graduate enrollment in doctorate science departments: Distribution among areas and fields of science, full- and part-time enrollment status, U.S. and foreign citizenship; and first-year and beyond-first-year level of study. The analysis is based on data submitted in NSF traineeship applications for fall 1971 and for 2,236 identical doctorate departments reporting in each of the years 1967-70.[1] Data on graduate enrollment presented here are considered representative of all doctorate science departments, because substantially all such departments, exclusive of those in medical and health-related sciences, apply annually for NSF traineeships.[2] However, this report is not intended to relate to all graduate education since it does not cover the following: Non-science departments, departments offering the master's degree as the highest earned degree, and departments that did not apply for NSF traineeships. For broader coverage of graduate enrollment in individual institutions, refer to publications of the U.S. Office of Education.[3]

GRADUATE ENROLLMENT

- The 227 institutions applying for 1971 NSF traineeships enrolled 188,800 full- and part-time graduate students in 3,071 science doctorate departments in fall 1970. Of these, 146,000, or 77 percent, were attending on a full-time basis, approximately the same percent as in 1969.
- More than four-fifths of these graduate students were U.S. citizens; those in their first year of study made up one-third of the total. These proportions showed little change from 1969.

---

[1] Preliminary findings were published in **Science Resources Studies Highlights,** "Recent Trends in Enrollment and Manpower Resources in Graduate Science Education, 1969-70" (NSF 71-14) (Washington, D.C. 20550, National Science Foundation) in which trend data were based on 2,740 doctorate departments reporting for both 1969 and 1970. Results in the preliminary study differed slightly from trends published here that were based on 2,236 doctorate departments.

[2] See appendix A for additional details on scope and coverage of this report.

[3] U.S. Office of Education, **Students Enrolled for Advanced Degrees, Institutional Data, Fall 1969** (OE 54019-60, Part B) (Washington, D.C. 20402: Supt. of Documents, U.S. Government Printing Office), 1970.

- Eighty-four percent of g
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ENROLLMENT STATUS

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- More part-time students
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- Between 1969 and 197
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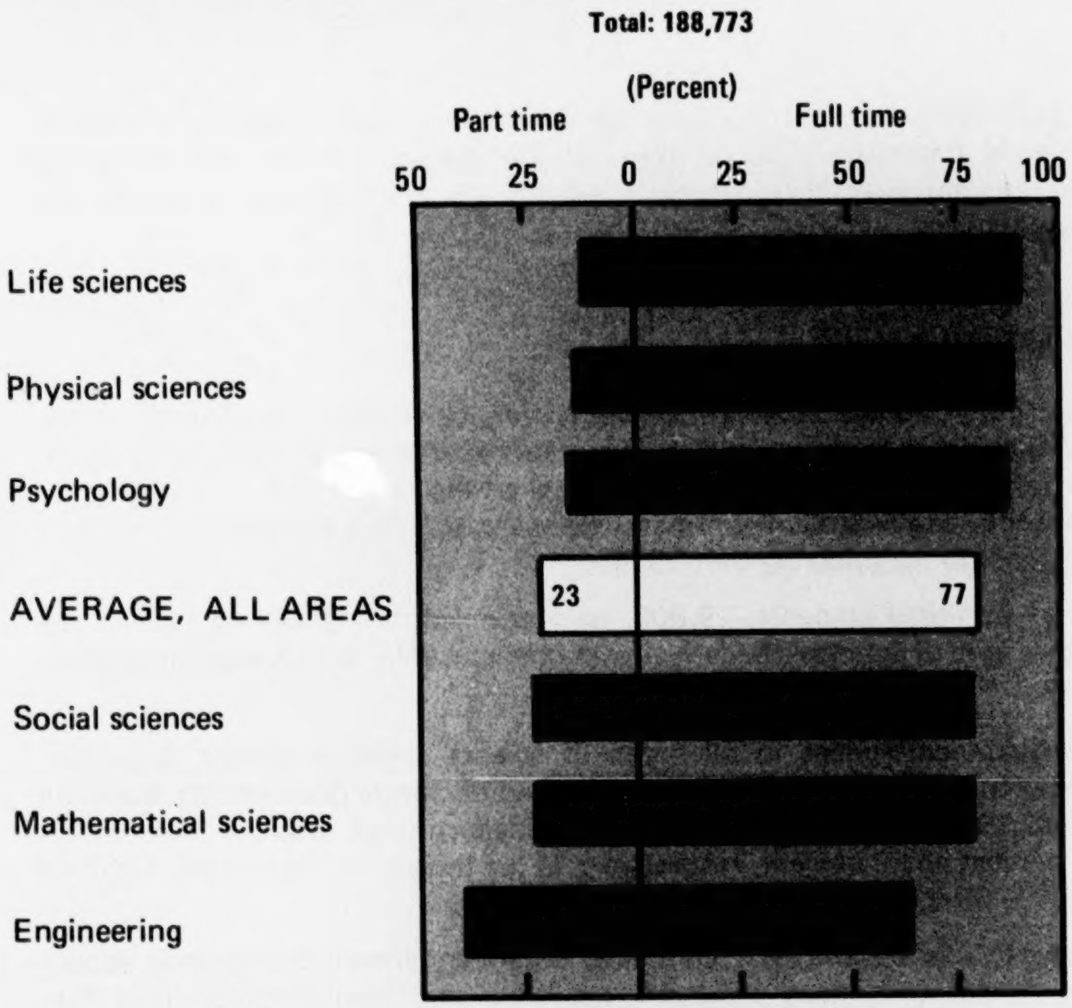
. 20402: Supt. of Documents, U.S.

- Eighty-four percent of graduate enrollment was concentrated in 4 areas of science: Engineering, social, physical, and the life sciences. The remaining 16 percent was shared almost equally by mathematical sciences and psychology.

ENROLLMENT STATUS

- Full-time graduate students accounted for more than three-fourths of the science enrollment reported by doctorate departments in 1970, as in 1969. In relative terms, the life sciences enrolled the most full-time students, 89 percent; engineering the fewest, 62 percent. This represented a slight increase for engineering over 1969.
- More part-time students, 19,600, were enrolled in engineering than in any other area of science; the fewest part-time students, 1,800, were in psychology.
- Graduate enrollment in all areas of science declined almost 2 percent between 1969 and 1970 in those matched doctorate departments reporting from 1967 through 1970. These same departments reported increases of 3 percent and 2 percent, respectively, in the two preceding periods, 1967-68 and 1968-69.
- Between 1969 and 1970, full-time graduate enrollment in doctorate departments declined nearly 1 percent; part-time enrollment declined more than 4 percent.

Graduate enrollment in doctorate departments, by area of science and enrollment status, 1970



SOURCE: National Science Foundation (appendix table C-1).

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- The decline in science
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Year, as of
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1970........

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[4] U.S. Bureau of the Ce
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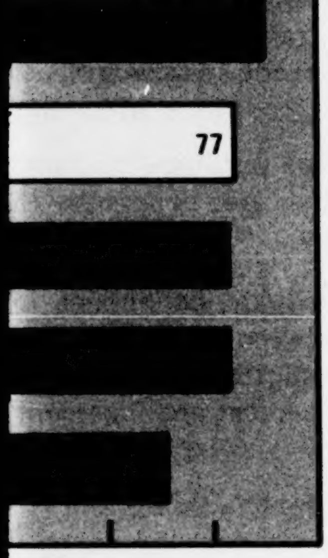

- Engineering enrollment of full-time graduate students increased moderately, 2 percent, from 1969 to 1970, while part-time engineering students decreased rather sharply, 9 percent. One of the factors responsible for this reduction was the recent drop in defense and space-related funding and employment, since industrial companies frequently make funds and time available to their technical personnel for part-time graduate studies. Industries which formerly offered graduate education as a fringe benefit reduced such practices.
- The decline in science graduate enrollment from 1969 to 1970 is attributable to other than demographic factors. The population ranging in age from 22 to 27 increased annually from 1967 to 1970, as shown below:[4]

Year, as of 1 July	Age 22-27 (in thousands)	Percent change over preceding year
1967........	16,106	3.4
1968........	16,592	3.0
1969........	17,918	8.0
1970........	18,816	5.0

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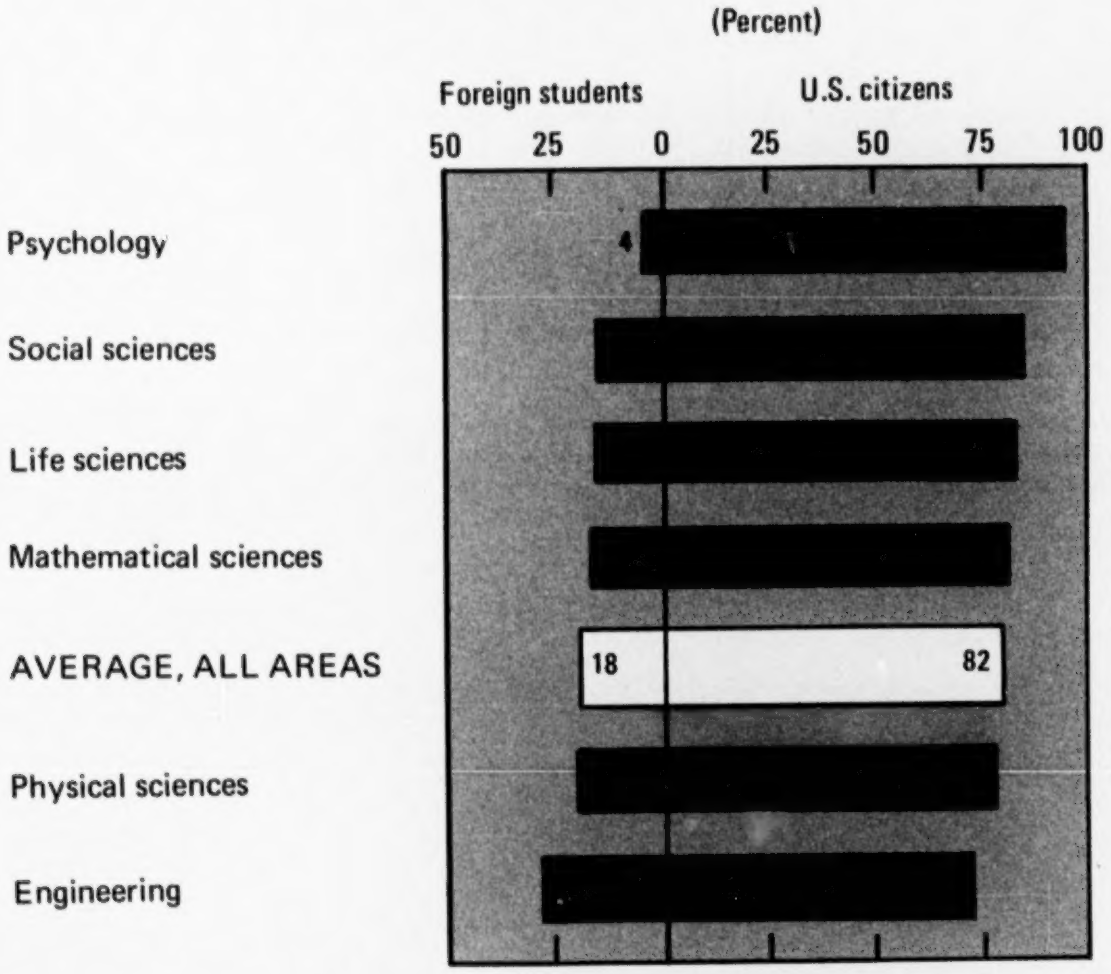
[4] U.S. Bureau of the Census, **Current Population Reports**, Series P-25, nos. 441 and 448 (Washington, D.C. 20402: Supt. of Documents, U.S. Government Printing Office.)

Percent change in graduate enrollment in doctorate departments, by area of science and enrollment status, 1967-70[a]

Area of science	Total			Full time			Part time		
	1967-68	1968-69	1969-70	1967-68	1968-69	1969-70	1967-68	1968-69	1969-70
Total	2.7	2.2	—1.7	2.6	1.4	—0.9	3.2	4.8	—4.5
Engineering	—.7	1.7	—2.4	—1.5	1.3	2.1	.5	2.2	—9.0
Physical sciences	1.1	—2.1	—4.0	1.4	—3.2	—4.0	—1.2	6.7	—4.2
Mathematical sciences	1.1	—2.4	—1.6	.9	—1.4	— .6	1.6	—5.3	—4.7
Life sciences	4.0	2.4	1.1	3.1	1.7	.2	13.3	8.5	8.5
Psychology	10.0	5.4	1.6	9.5	5.9	1.3	13.5	1.7	3.6
Social sciences	7.1	8.5	—1.8	6.5	6.4	—2.6	9.4	16.8	1.0

[a] Based on 2,236 doctorate departments reporting in each of the 4 years, as shown in appendix table C-13. These data may vary by a few percentage points from the previous publication, **Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1969**, which was based on 2,894 matched departments (table 1, p. 3).

Graduate enrollment in doctorate departments, by area of science and citizenship, 1970



SOURCE: National Science Foundation (appendix table C-2).

CITIZENSHIP

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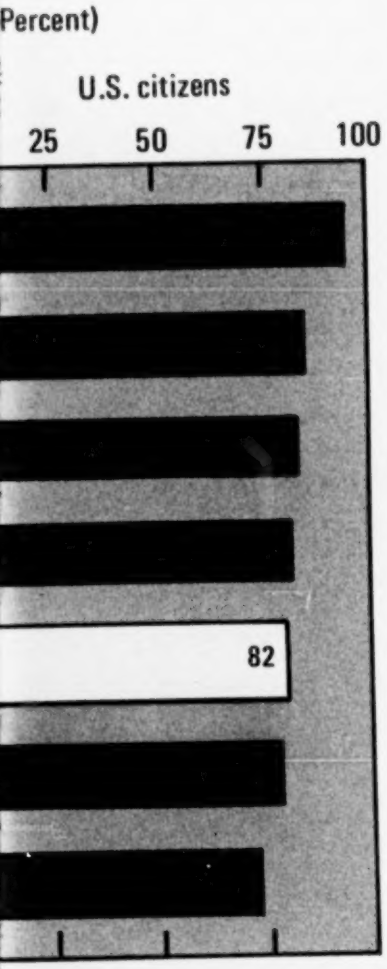
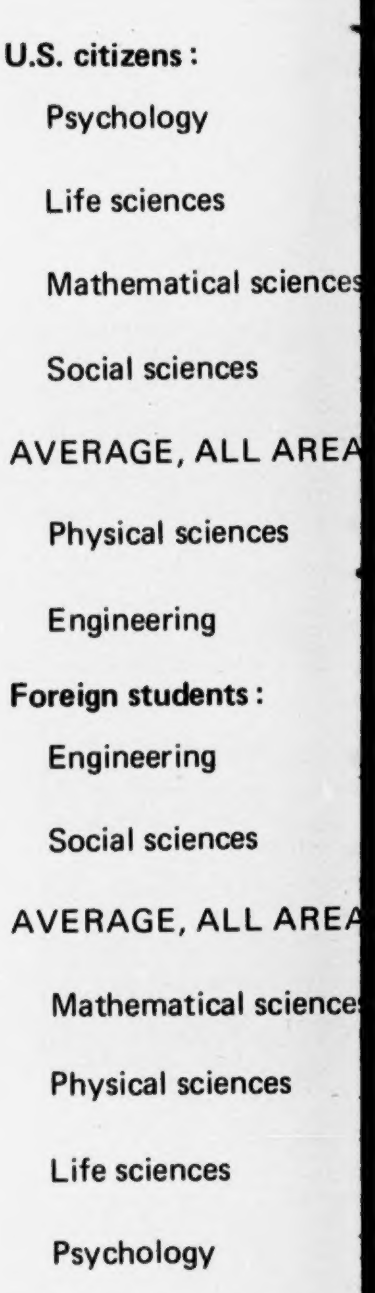


CITIZENSHIP

- U.S. citizens accounted for more than four-fifths of all graduate enrollment in 1970, about the same proportion as in 1969.
- Psychology, which enrolled the smallest number of graduate students — 14,500 or 8 percent of the total — accounted for the largest proportion of U.S. citizens, 96 percent.
- Of all areas of science, engineering accounted for the largest number of foreign graduate students, 13,900; psychology, the smallest, 500.

- The number of U.S. citizens enrolled in graduate science departments declined 3 percent from 1969 to 1970, while foreign students increased 5 percent.
- Enrollment of U.S. citizens in psychology and the life sciences increased during 1969-70; all other areas of science reflected decreasing rates of U.S. citizen enrollment.
- Only psychology experienced a decline in foreign student enrollment between 1969 and 1970. All other areas of science reported increases, but at lesser rates than in previous years.

Change in graduate
by citizenship and



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SOURCE: National Science Fo

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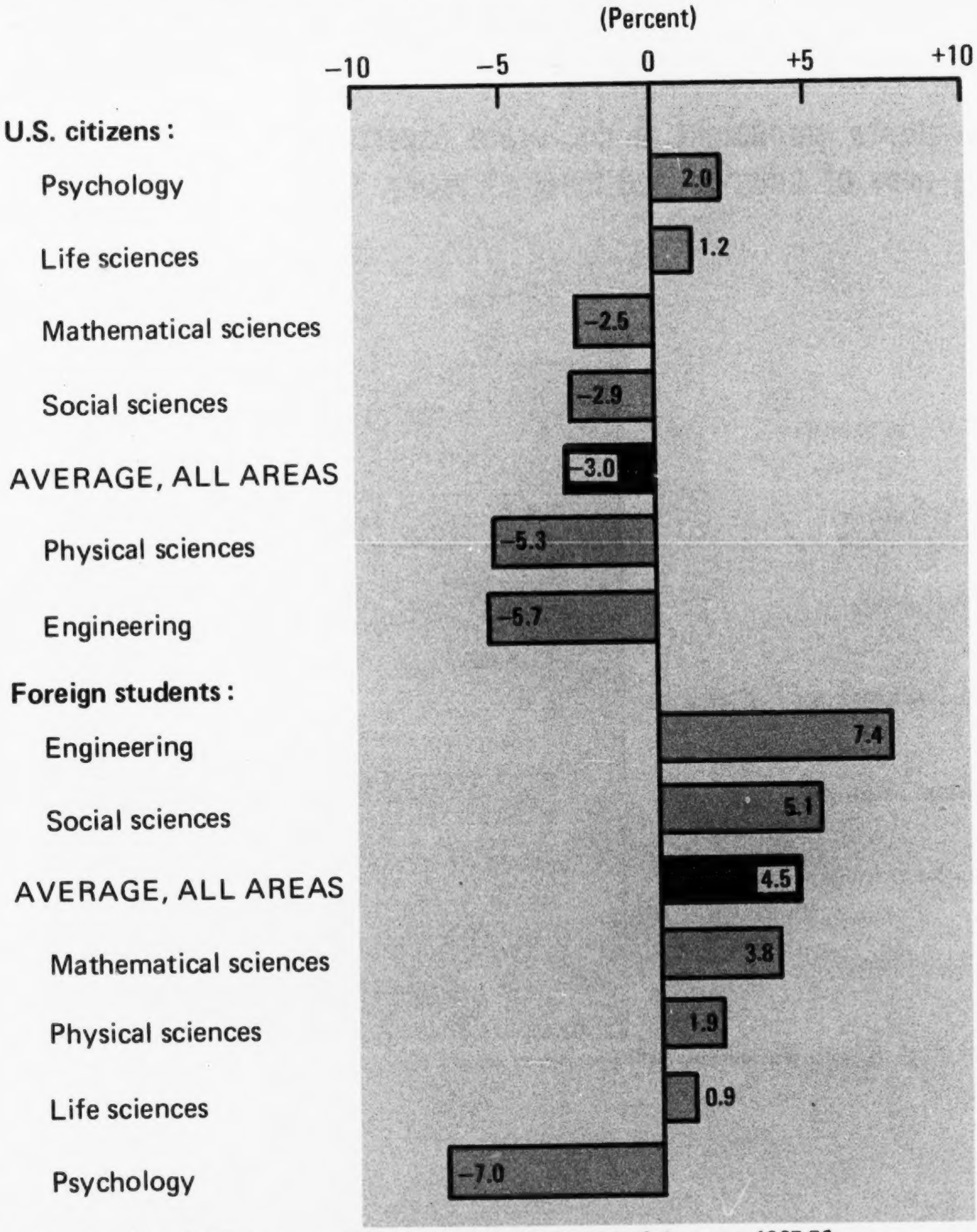
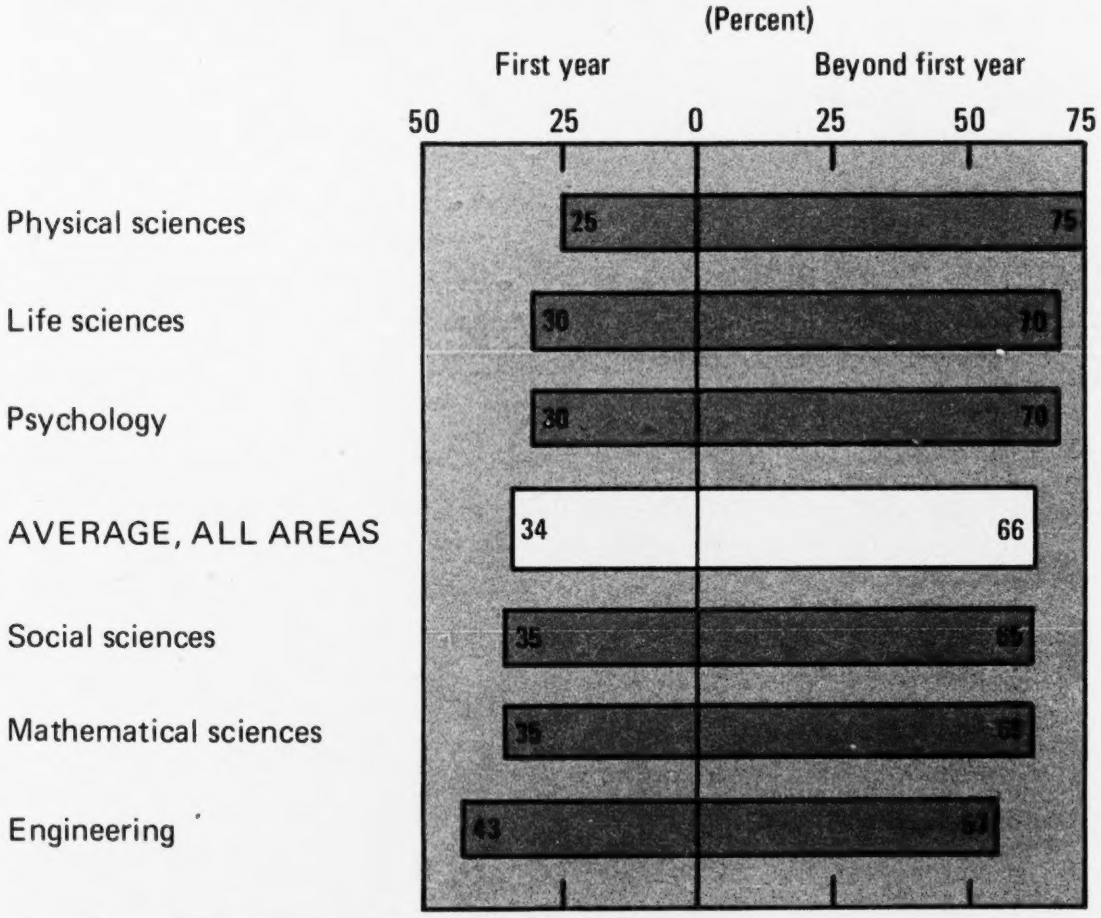
Change in graduate enrollment in doctorate departments, by citizenship and area of science, 1969-70



Note: Based on 2,236 doctorate departments reporting in each of the years, 1967-70.

SOURCE: National Science Foundation (appendix table C-13).

Graduate enrollment in doctorate departments, by area of science and level of study, 1970



SOURCE: National Science Foundation (appendix table C-4).

LEVEL OF STUDY

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- Among areas of science,
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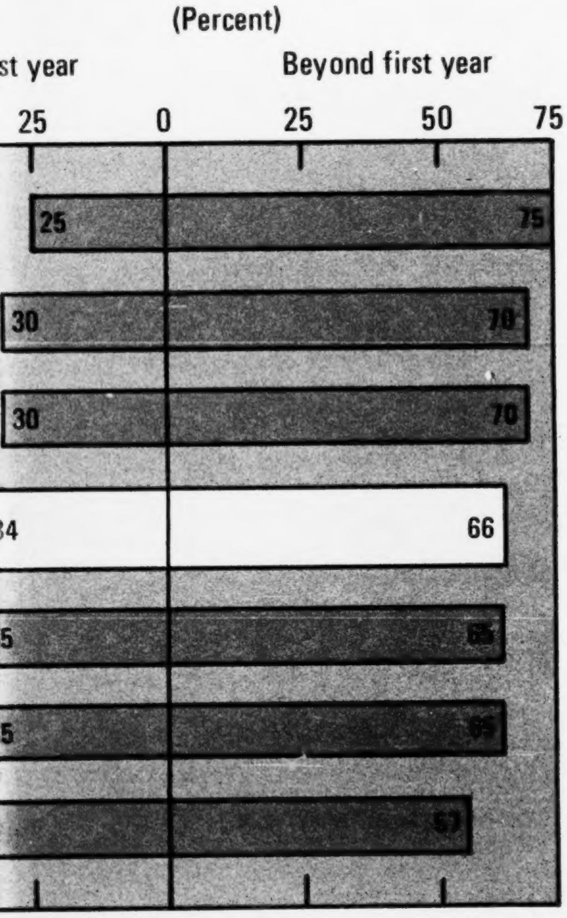


dix table C-4).

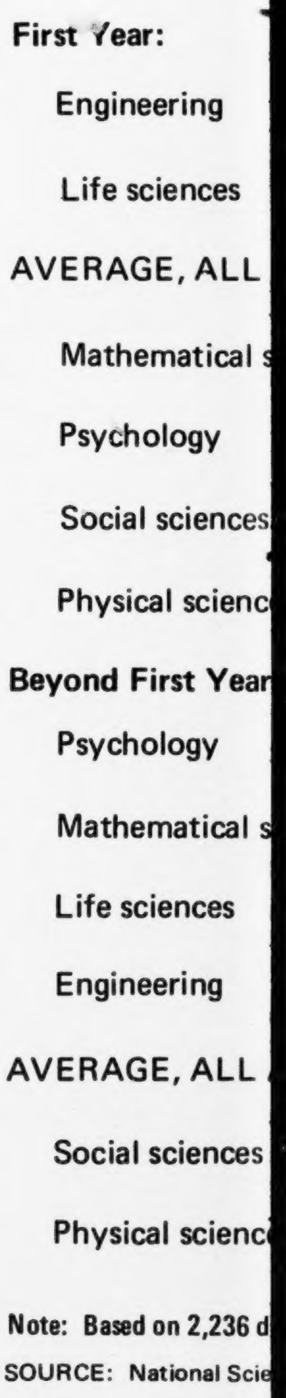
LEVEL OF STUDY

- Two-thirds of all graduate students reporting in 1970 were beyond their first year of study, as in the previous year.
- Among areas of science, engineering had the highest proportion of first-year students, 43 percent; the physical sciences had the lowest, 25 percent.

- The number of first-year students enrolled full time in science doctorate departments was 3 percent lower in 1970 than in 1969, after increasing more than 5 percent the previous year. All areas of science except engineering experienced this decline, with the physical and social sciences decreasing at the highest rates.
- The physical and social sciences also experienced enrollment losses in full-time graduate students studying beyond their first year. All other sciences registered slight gains from 1969 to 1970, the highest in psychology.

(For more detailed data on this section, see appendix tables C-1 through C-5 and C-13).

Change in full-
level of study



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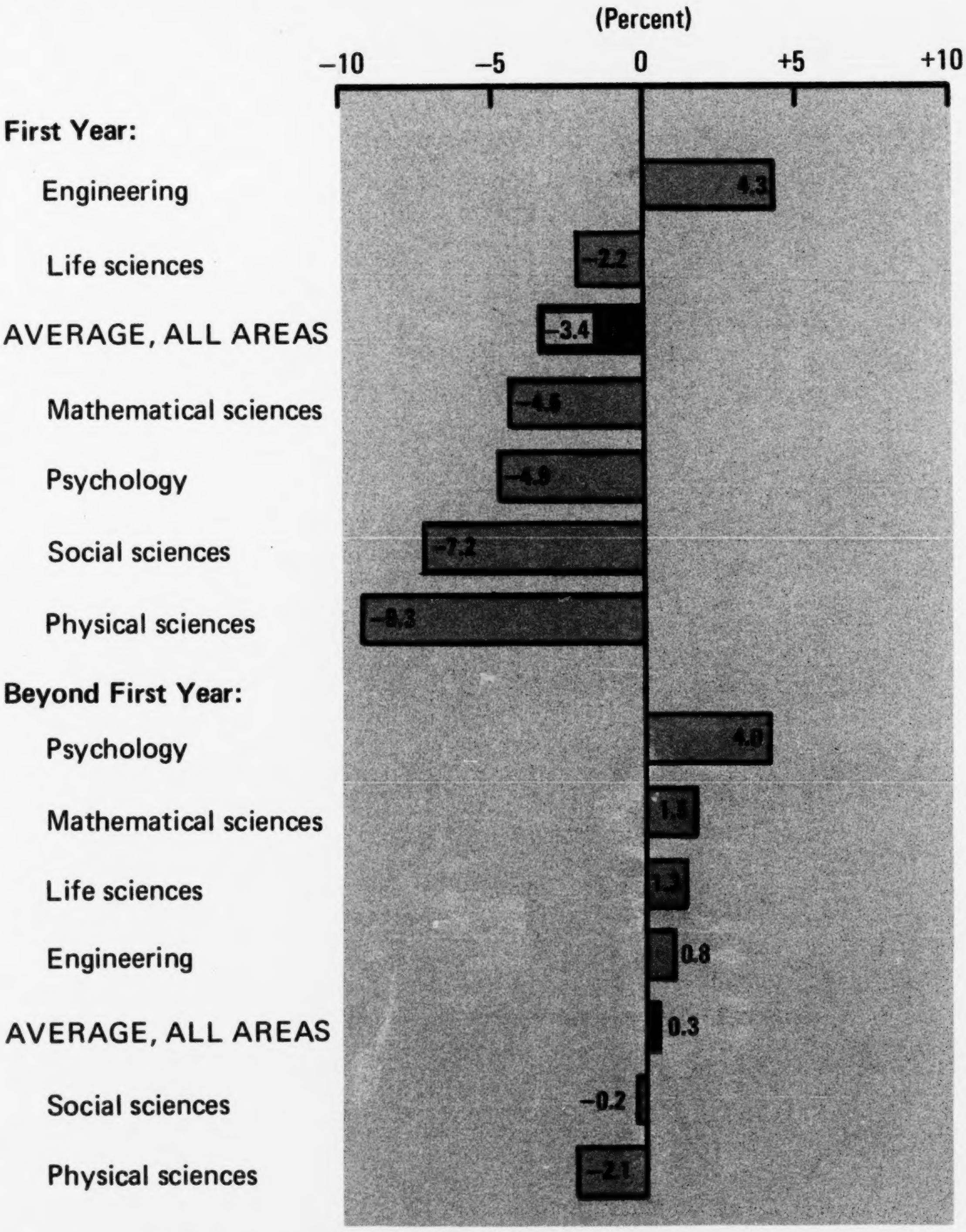
Change in full-time enrollment in doctorate departments, by level of study and area of science, 1969-70



Note: Based on 2,236 doctorate departments reporting in each of the years, 1967-70.

SOURCE: National Science Foundation (appendix tables C-15A through C-15G).

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ndix tables C-1 through C-5 and

SECTION II.

types of major support of full-time graduate students in doctorate

Applications for traineeships provided valuable information regarding the number of full-time students receiving each of the following categories of support: Fellowships-traineeships, research assistantships, teaching assistantships, and all "other" mechanisms (primarily self-support).[5]

Both **fellowships and traineeships** allow the graduate student a wide degree of freedom while pursuing his training without requiring any specific services to the institution in exchange. Since these two types of support are similar, they were considered together in NSF application forms as one type of support to simplify the data collection process. See the technical notes in appendix B for the distinction made between the two types of awards by the Federal Interagency Committee on Education (FICE).

A **graduate research assistant** is usually required to perform specific services under the direction or supervision of a faculty member or other departmental professional staff member. These appointments are usually associated with basic research grants or contracts administered by faculty or other principal investigators from funds earmarked for research. The emphasis in this type of program is on quality and productivity and may impose a considerable workload on the student. However, participation in such projects often affords the graduate student the opportunity to apply the research to his dissertation requirements, thus expediting the completion of his academic work.

Of all the mechanisms available for supporting graduate students, the **teaching assistantship** is the most demanding in terms of time and effort required. Teaching assistantships tend to be viewed as less desirable than other forms of outside financial support in that they often entail rigorous and time consuming duty assignments which sometimes lengthen the time interval required for completion of graduate work. On the other hand, such work experience is valuable to students preparing for careers in science, particularly those planning to join faculties of universities, colleges, or other institutions. Moreover, the staff services provided by graduate teaching assistants are important to universities that rely heavily on such personnel to teach undergraduate courses.

The last category of support, known as **"other" mechanisms,** represents the group of students who are primarily self-supporting, or whose support cannot be described as one of the three types mentioned above. This would include support from savings, loans, families, part-time nonacademic work, etc.

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[5] See definitions in appendix A, technical notes, for amplification of these categories.

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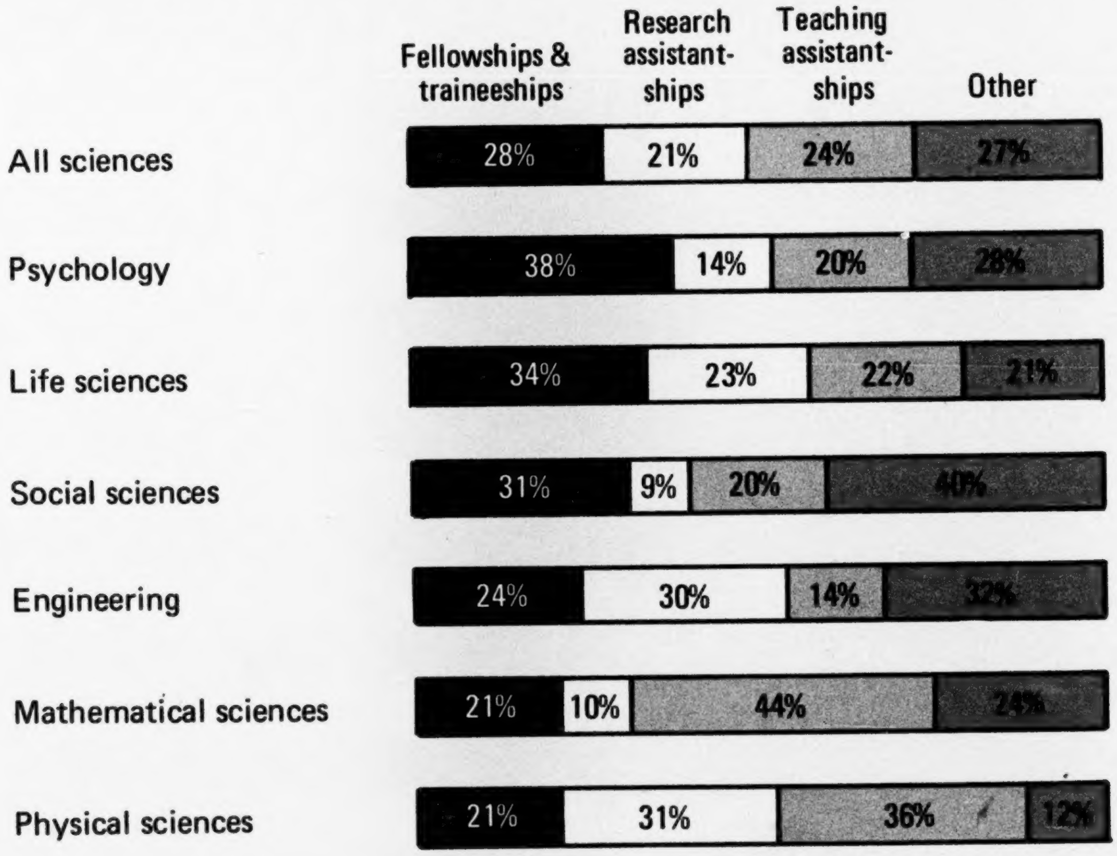
AREAS OF SCIENCE

- Among areas of science, the types of support by which full-time students finance graduate education varied greatly. For instance, in psychology and the life sciences, the largest proportion of students was supported by fellowships-traineeships; in the social sciences and engineering, by "other" mechanisms; in the mathematical and physical sciences, by teaching assistantships.
- Fellowships-traineeships and "other" types of support together financed more than one-half of the science graduate students attending institutions applying for 1971 NSF traineeships. In no area of science were research assistantships the predominant mechanism of support.

Distribution of types of major support of full-time graduate students in doctorate departments, by area of science, 1970



SOURCE: National Science Foundation (appendix table C-6).

CITIZENSHIP

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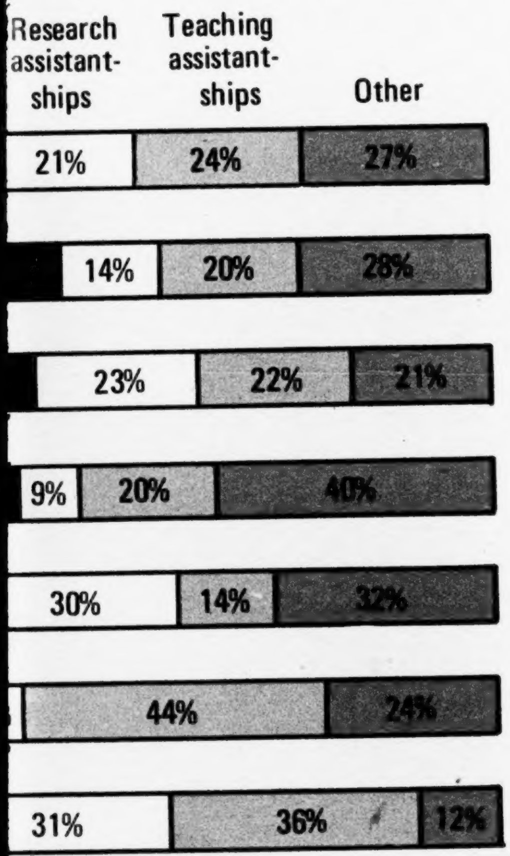

e C-6).

CITIZENSHIP

- More U.S. citizens, 34,800, were supported by fellowships-traineeships than by any other form of support in 1970. One-fourth of these students were in the life sciences.
- Research and teaching assistantships provided the major support of U.S. citizens in the physical sciences, while in the social sciences, U.S. citizens depended primarily upon "other" support mechanisms.
- Eighty percent of all teaching assistants -- 28,600 students — held U.S. citizenship in 1970; of these, 29 percent were concentrated in the physical sciences. The physical sciences also accounted for more than one-third of all foreign teaching assistants.
- Foreign students, who were rarely eligible for government-financed fellowships-traineeships, relied heavily upon research assistantships and "other" mechanisms for support, particularly in engineering. Those foreign students who did obtain fellowships or traineeships studied mainly in the social sciences; those holding teaching assistantships were primarily in the physical sciences.

Percent distribution of full-time graduate students in doctorate departments by area of science, citizenship, and type of major support, 1970

Area of science	Total	Fellowships and traineeships	Research assistantships	Teaching assistantships	Other types of support
Total (number)	145,970	40,416	31,311	35,594	38,749
	Percent distribution				
Engineering	21.6	18.5	30.2	12.4	26.3
Physical sciences	20.2	15.3	29.0	30.1	9.3
Mathematical sciences	8.3	6.3	4.1	15.1	7.6
Life sciences	20.3	24.6	22.0	18.6	16.1
Psychology	8.7	12.0	5.5	7.1	9.2
Social sciences	20.9	23.2	9.2	16.8	31.6
U.S. citizens (number)	116,206	34,841	21,911	28,591	30,863
	Percent distribution, U.S. citizens				
Engineering	17.3	17.4	23.1	9.2	20.6
Physical sciences	20.3	15.5	31.9	29.1	9.4
Mathematical sciences	8.5	6.3	3.9	15.2	7.9
Life sciences	21.5	25.3	23.5	20.4	16.7
Psychology	10.5	13.6	7.3	8.4	11.1
Social sciences	22.0	21.9	10.4	17.8	34.2
Foreign students (number)	29,764	5,575	9,300	7,003	7,886
	Percent distribution, foreign students				
Engineering	38.2	25.4	47.1	25.4	48.2
Physical sciences	19.9	14.1	22.0	34.2	8.8
Mathematical sciences	7.8	6.3	4.6	14.6	6.6
Life sciences	15.8	20.2	18.6	11.4	13.5
Psychology	1.7	2.2	1.3	1.9	1.6
Social sciences	16.6	31.9	6.4	12.6	21.4

LEVEL OF STUDY

- Characteristics of first-year students differed considerably from their counterparts studying beyond their first year in terms of financial support. While more than one-third of the first-year students relied upon "other" mechanisms, primarily self-support, only one-fifth of the students beyond their first year did so. Beyond-first-year students have an advantage over first-year students in competing for the more desirable forms of financial support.

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Percent distribution of full-time graduate student
by area of science, level of study, and type o

Area of science	Total	Fellowships and traineeships	as
Total (number)	145,970	40,416	
First-year students (number)	47,154	12,506	
	Percent distr		
Engineering	26.7	25.1	
Physical sciences	15.7	12.7	
Mathematical sciences	8.8	7.5	
Life sciences	18.7	19.2	
Psychology	7.9	11.1	
Social sciences	22.1	24.3	
Beyond-first-year students (number)	98,816	27,910	
	Percent distribut		
Engineering	19.1	15.5	
Physical sciences	22.4	16.4	
Mathematical sciences	8.1	5.8	
Life sciences	21.1	27.1	
Psychology	9.0	12.4	
Social sciences	20.3	22.8	

ered considerably from their counter- in terms of financial support. While students relied upon "other" mech- ne-fifth of the students beyond their ents have an advantage over first-year sirable forms of financial support.

- Almost one-half of the first-year students were concentrated in two areas of science, engineering and the social sciences. More than four-fifths of the beyond-first-year students were distributed fairly evenly among four areas, the physical, life, and social sciences, and engineering.

Percent distribution of full-time graduate students in doctorate departments, by area of science, level of study, and type of major support, 1970

ence	Total	Fellowships and traineeships	Research assistantships	Teaching assistantships	Other types of support
umber)	145,970	40,416	31,211	35,594	38,749
nts (number)	47,154	12,506	6,471	10,941	17,236
	Percent distribution, first year				
g	26.7	25.1	37.7	13.0	32.4
ciences	15.7	12.7	12.5	34.2	7.4
cal sciences	8.8	7.5	3.8	14.9	7.7
es	18.7	19.2	24.7	19.2	15.9
y	7.9	11.1	7.6	6.2	6.7
ences	22.1	24.3	13.6	12.4	29.9
r students	98,816	27,910	24,740	24,653	21,513
	Percent distribution, beyond first year				
g	19.1	15.5	28.3	12.1	21.4
ciences	22.4	16.4	33.2	28.2	10.8
cal sciences	8.1	5.8	4.1	15.2	7.6
es	21.1	27.1	21.3	18.3	16.2
y	9.0	12.4	4.9	7.5	11.1
nces	20.3	22.8	8.1	18.7	32.9

TRENDS

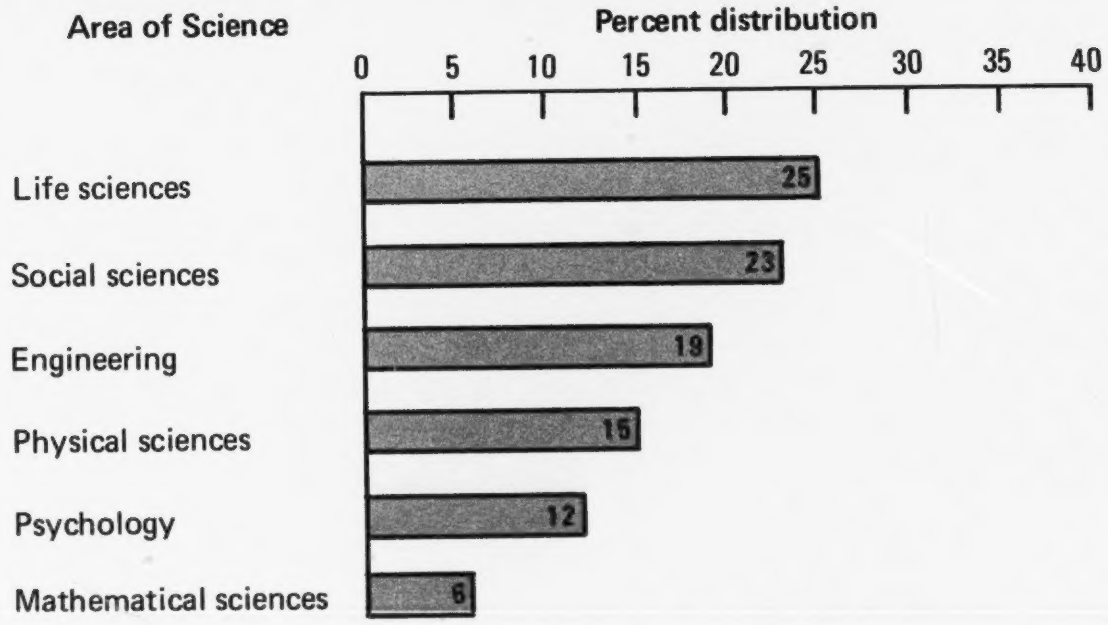
- The overall decline in full-time science enrollment was most apparent for students holding fellowships-traineeships, with an 8-percent decrease from 1969 to 1970.
- The number of research assistants declined throughout 1967-70, while the number of teaching assistantships maintained a rather consistent annual rate of growth.
- Students receiving "other" types of support experienced an increase of 2 percent from 1969 to 1970, compared with much larger gains during 1967-69.

Percent change in full-time graduate students in doctorate departments, by type of major support, 1967-70[a]

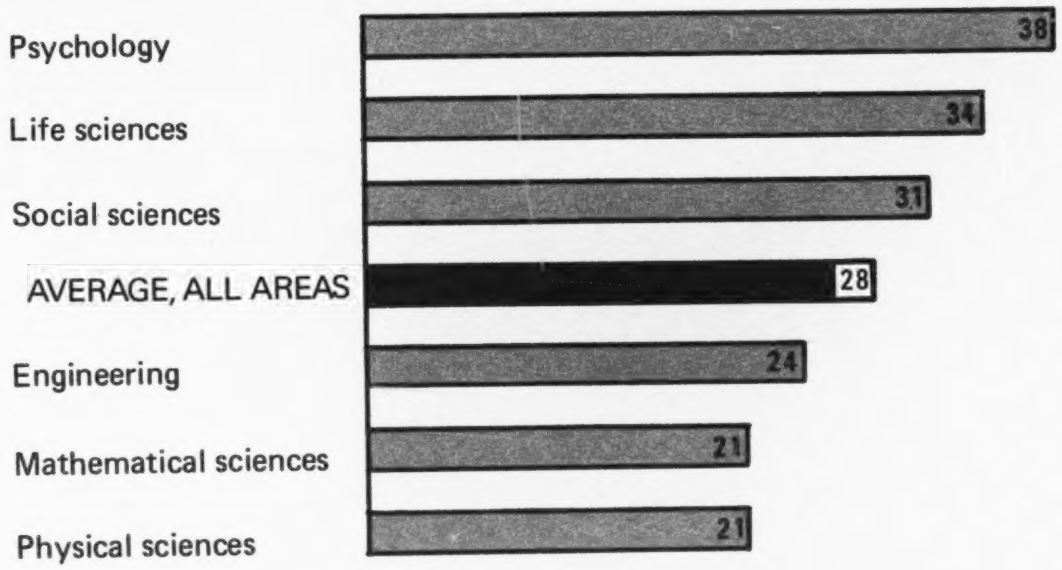
Types of major support	Percent change		
	1967-68	1968-69	1969-70
Total	2.6	1.4	—0.9
Fellowships-traineeships	1.5	—5.9	—7.9
Research assistantships	—1.2	— .8	— .4
Teaching assistantships	4.9	3.5	4.2
Other types	5.6	11.9	2.2

[a] Based on 2,236 doctorate departments reporting in each of the 4 years, as shown in appendix tables C–14A through C–14G.

Full-time graduate students holding fellowships and traineeships in doctorate departments, 1970



As percent of full-time graduate enrollment in each area of science



Note: Refers to graduate students receiving their maior support through fellowships-traineeships.

SOURCE: National Science Foundation (appendix table C-7).

FELLOWSHIPS AND

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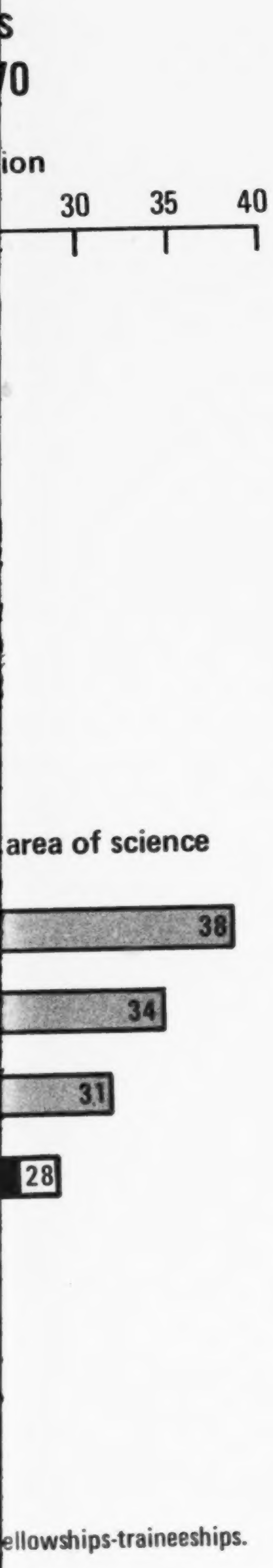
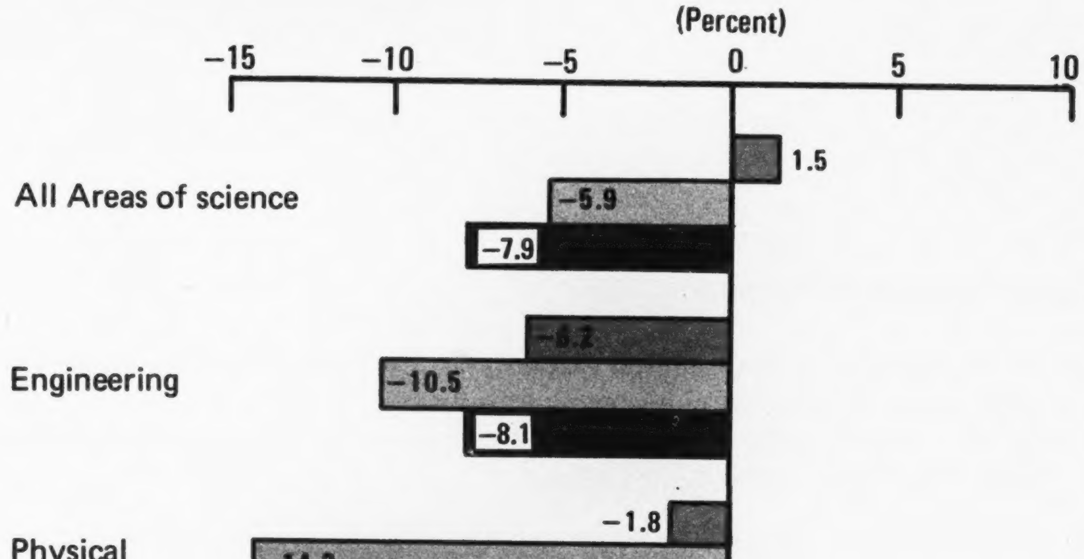


FELLOWSHIPS AND TRAINEESHIPS

- As in previous years, fellowships-traineeships were the type of major support utilized by the largest number of full-time graduate students, 40,400, or 28 percent of the total, in 1970. Almost one-half of these students were studying in the life and social sciences.
- When areas of science were ranked in terms of the relative number of fellows-trainees in each, psychology was first with 38 percent, and physical and mathematical sciences ranked last with 21 percent each.

Change in the number of full-time graduate students holding fellowships-traineeships in doctorate departments, by area of science, 1967-70



Note: Based on 2,236 doctorate departments reporting in each of the 4 years.

SOURCE: National Science Foundation (appendix tables C-14A through C-14G).

- Fellowship-traineeship
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- Fellows-trainees in the
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- Fellowship-traineeship support declined sharply from 1969 to 1970. In the doctorate departments which reported in each of the preceding years, the number of full-time graduate students holding fellowships or traineeships dropped 8 percent, while overall enrollment dropped less than 1 percent.
- Fellows-trainees in the physical and mathematical sciences experienced the greatest rates of decline, about 14 percent each, from 1969 to 1970. The lowest rate of decline, only 1 percent, was experienced by fellows-trainees in psychology.

- The number of U.S. citizens receiving fellowships-traineeships declined 9 percent from 1969 to 1970, compared with a 1-percent increase in foreign students in this category. Foreign fellows-trainees, while increasing throughout 1967-70, experienced a decline in the rate of growth each period.
- Both first-year students and those beyond their first year declined from 1969 to 1970, the latter students at nearly twice the rate of the former. Only foreign students beyond their first year of training indicated any sustained rate of increase.

Percent change in the number of full-time graduate students receiving major support as fellows-trainees, by citizenship and level of study, 1967-70[a]

Citizenship and level of study	Percent change		
	1967-68	1968-69	1969-70
Total	1.5	—5.9	— 7.9
First year	—11.9	— .8	— 5.1
Beyond first year	7.9	—7.9	— 9.1
U.S. citizens	1.0	—7.2	— 9.2
First year	—13.3	—2.0	— 4.9
Beyond first year	7.5	—9.1	—10.9
Foreign students	6.1	4.4	1.3
First year	— 2.7	6.9	— 6.3
Beyond first year	11.5	3.1	5.6

[a] Based on 2,236 doctorate departments reporting in each of the 4 years, as shown in appendix table C–15A.

RESEARCH ASSISTANTSHI

- About one-fifth of the f their major support thr third of these 31,200 st than one-third in the phy
- In a ranking of areas c assistantships as the m followed closely by eng last.
- The number of research but the annual rate of by fellows-trainees.
- Four areas of science rep between 1969 and 1970 and psychology. The p decline, which was twice

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1968-69	1969-70
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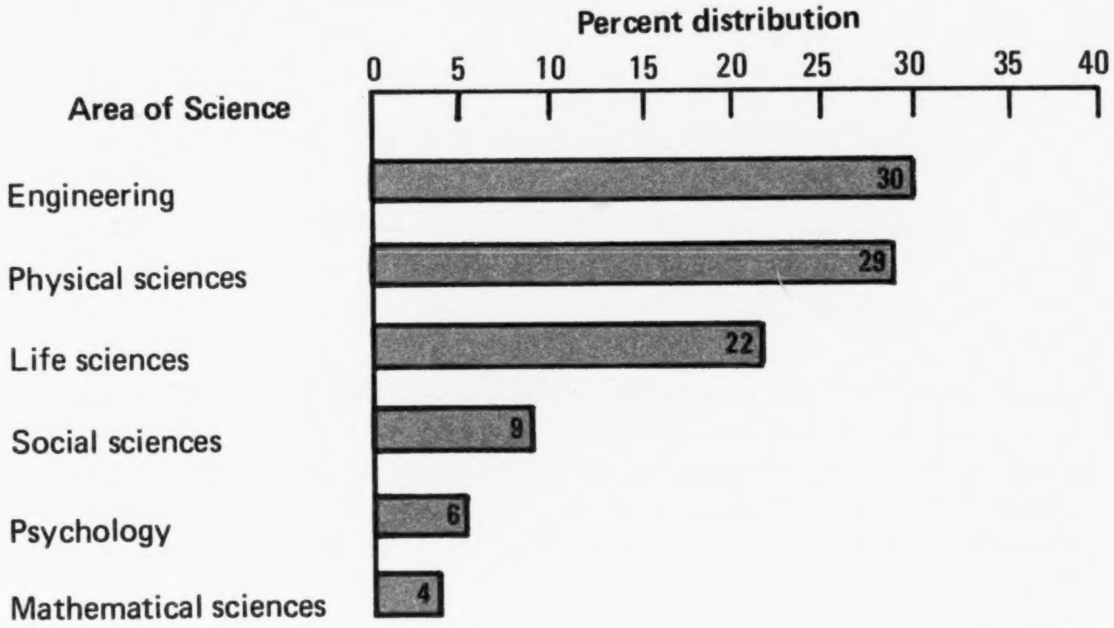
— .8	— 5.1
—7.9	— 9.1
—7.2	— 9.2
—2.0	— 4.9
—9.1	—10.9
4.4	1.3
6.9	— 6.3
3.1	5.6

of the 4 years, as shown in appendix

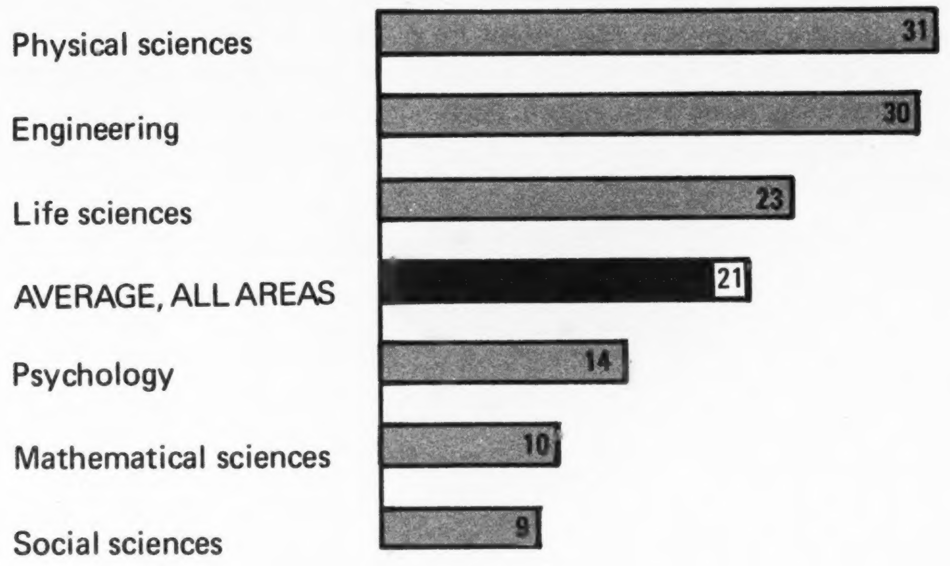
RESEARCH ASSISTANTSHIPS

- About one-fifth of the full-time students in doctorate departments received their major support through research assistantships in 1970. Almost one-third of these 31,200 students were studying in engineering and slightly less than one-third in the physical sciences.
- In a ranking of areas of science according to the importance of research assistantships as the mechanism of support, the physical sciences were first, followed closely by engineering, and social and mathematical sciences were last.
- The number of research assistants declined in each of the years, 1967-70, but the annual rate of decline was considerably less than that experienced by fellows-trainees.
- Four areas of science reported increases in the number of research assistants between 1969 and 1970: Engineering, mathematical sciences, life sciences, and psychology. The physical sciences experienced the highest rate of decline, which was twice the annual rate of decrease in the social sciences.

Full-time graduate students holding research assistantships in doctorate departments, 1970



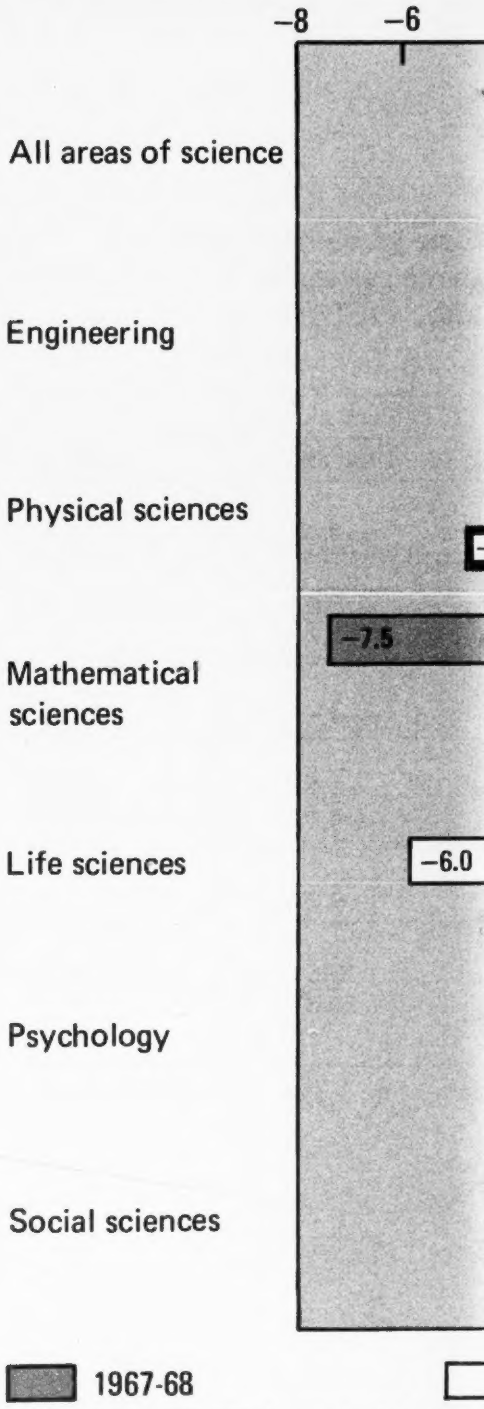
As percent of full-time graduate enrollment in each area of science



Note: Refers to graduate students receiving their major support through research assistantships.

SOURCE: National Science Foundation (appendix table C-7).

Change in the number of f research assistantships in science, 1967-70



Note: Based on 2,236 doctorate departmen

SOURCE: National Science Foundation (ap

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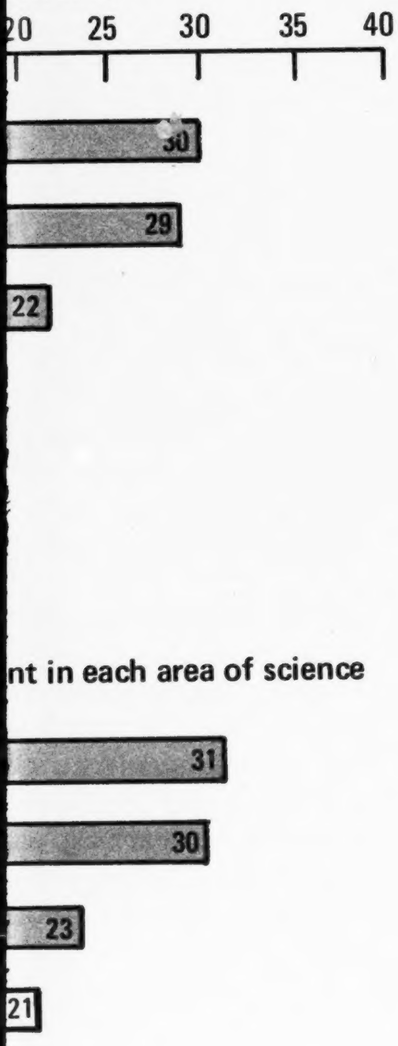

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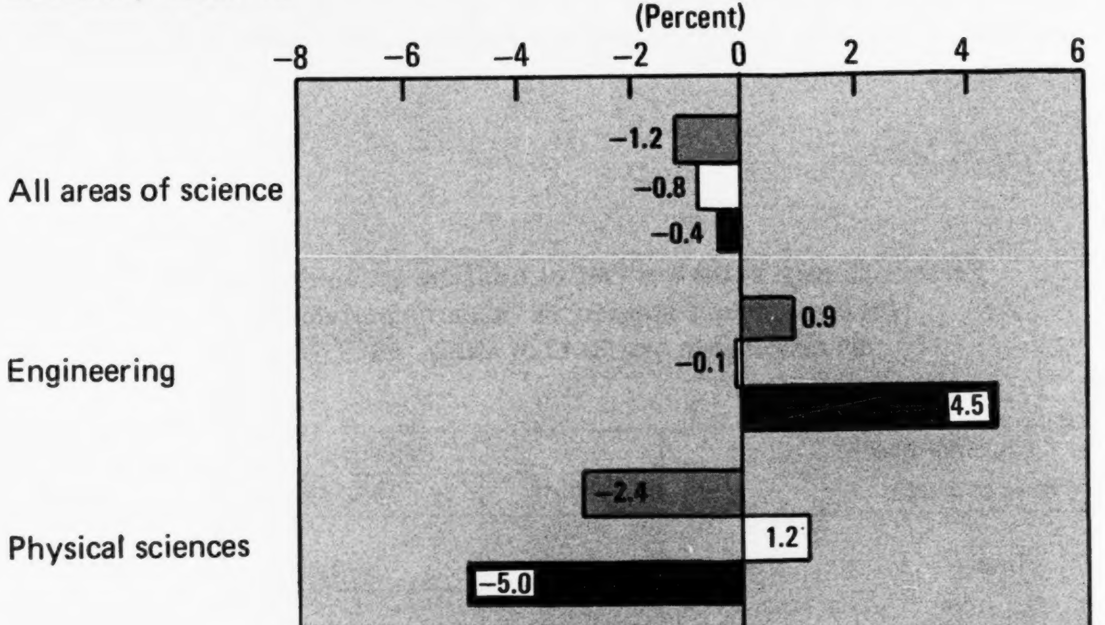
Change in the number of full-time graduate students holding research assistantships in doctorate departments, by area of science, 1967-70



Note: Based on 2,236 doctorate departments reporting in each of the 4 years.

SOURCE: National Science Foundation (appendix tables C-14A through C-14G).

- The 1-percent decline in U.S. citizen research assistants was partially offset by the 1-percent increase in foreign students in 1970.
- The number of first-year U.S. citizen research assistants increased almost 3 percent from 1969 to 1970, but those enrolled beyond their first year declined 2 percent. First-year foreign research assistants were down 11 percent.

Percent change in the number of full-time graduate students receiving major support as research assistants, by citizenship and level of study, 1967-70[a]

Citizenship and level of study	Percent change		
	1967-68	1968-69	1969-70
Total	— 1.2	—0.8	— 0.4
First year	— 8.1	3.2	— 1.4
Beyond first year	.5	—1.7	— .1
U.S. citizens	— 4.4	—4.5	— .9
First year	—14.2	3.2	2.6
Beyond first year	— 1.9	—6.1	— 1.7
Foreign students	8.7	9.2	.9
First year	9.9	3.1	—10.5
Beyond first year	8.4	10.8	3.8

[a] Based on 2,236 doctorate departments reporting in each of the 4 years, as shown in appendix table C–15A.

TEACHING ASSISTANTS

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Percent change	
1968-69	1969-70
—0.8	— 0.4
3.2	— 1.4
—1.7	— .1
—4.5	— .9
3.2	2.6
—6.1	— 1.7
9.2	.9
3.1	—10.5
10.8	3.8

ch of the 4 years, as shown in appendix

TEACHING ASSISTANTSHIPS

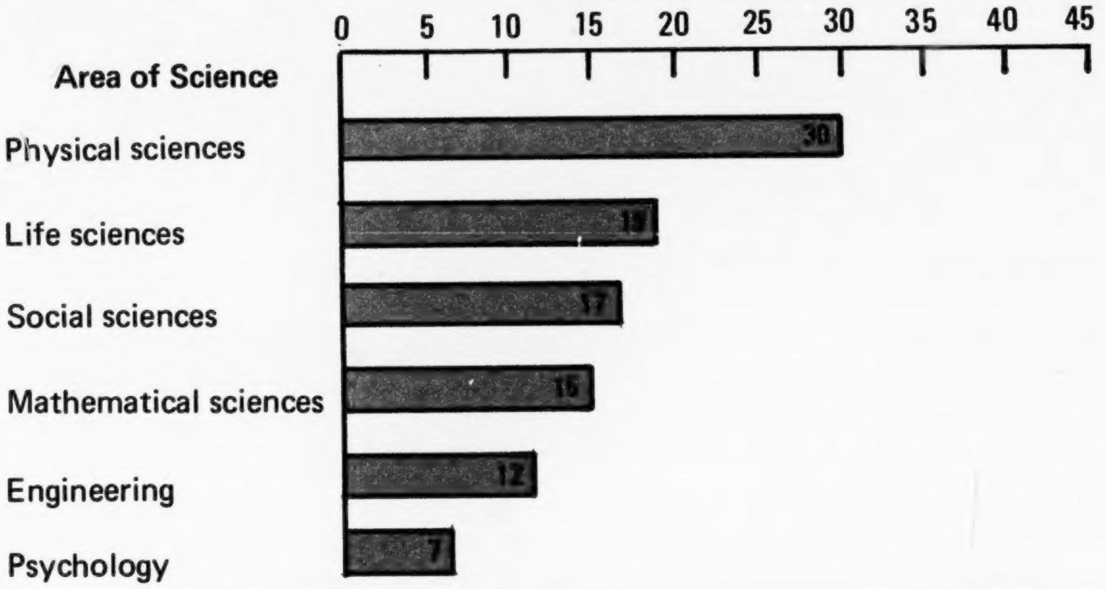
- Nearly one-fourth of the full-time graduate students in doctorate departments financed their graduate careers in 1970 through teaching assistantships. Of these 35,600 students, 30 percent were in the physical sciences, similar to the pattern for research assistants. However in engineering, while research assistants were the highest proportion, teaching assistants ranked fifth, accounting for only 12 percent.

- In a ranking of areas of science, in terms of the relative number of students receiving major support from teaching assistantships, mathematical sciences were first; engineering, last.

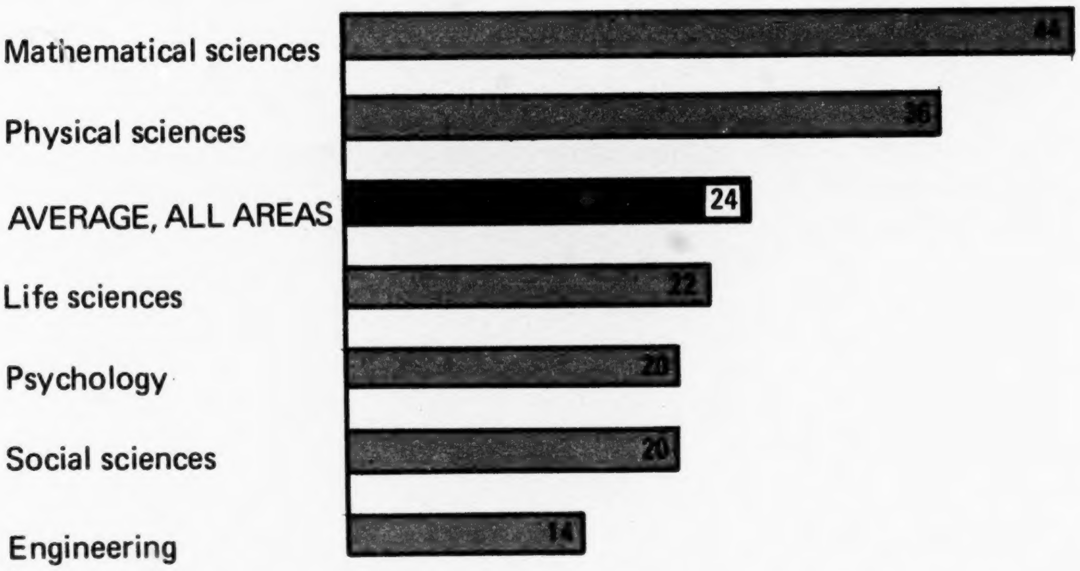
- Teaching assistants increased by 4 percent from 1969 to 1970, in contrast with the sharp decline of fellows-trainees. Each area of science reported increases in teaching assistants, particularly the mathematical sciences. The social sciences experienced only a 1-percent change after the sharp 9-percent increase during 1968-69.

Full-time graduate students holding teaching assistantships in doctorate departments, 1970

Percent distribution



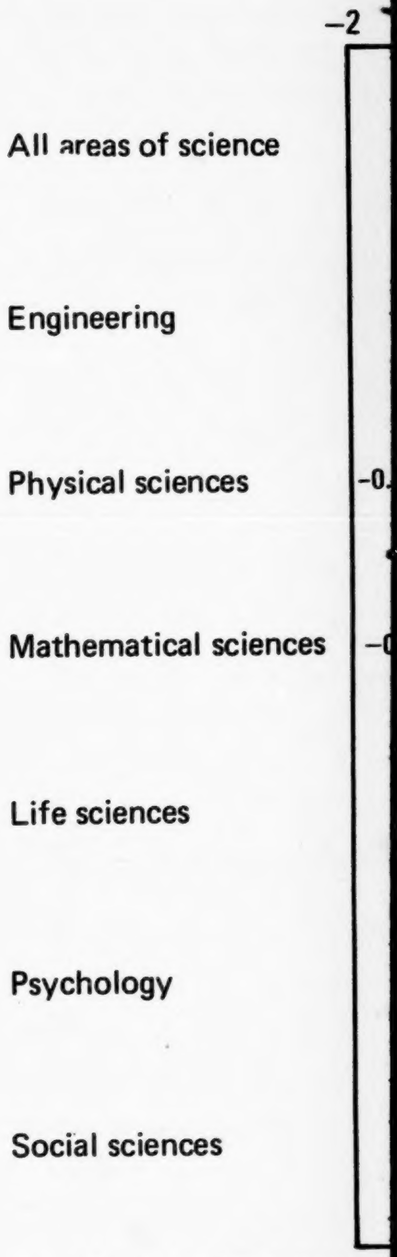
As percent of full-time graduate enrollment in each area of science



Note: Refers to graduate students receiving their major support through teaching assistantships.

SOURCE: National Science Foundation (appendix table C-7).

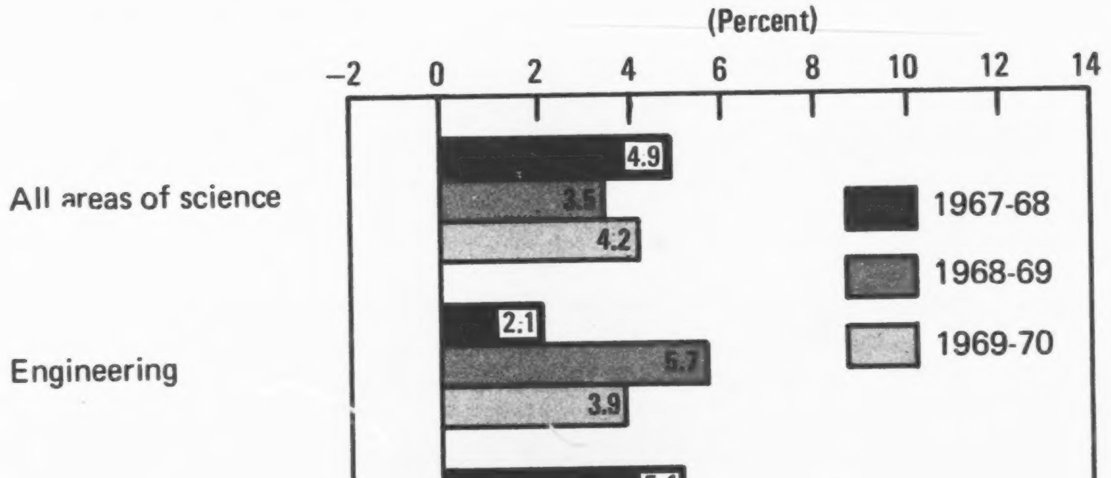
Change in the number teaching assistantshi science, 1967-70



Note: Based on 2,236 doctorate d

SOURCE: National Science Foun

Change in the number of full-time graduate students holding teaching assistantships in doctorate departments, by area of science, 1967-70



Note: Based on 2,236 doctorate departments reporting in each of the 4 years.

SOURCE: National Science Foundation (appendix tables C-14A through C-14G).

- From 1969 to 1970, the number of first-year graduate students declined by 3 percent, which was reflected in each category of graduate support. However, the number of first-year teaching assistants showed the highest rate of decline of all, 6 percent.
- Foreign students in their first year of study holding teaching assistantships also reflected the decline, reversing the trend of the preceding periods.
- Teaching assistants who were beyond their first year of graduate study experienced an almost 10-percent rise between 1969 and 1970, while fellows-trainees beyond their first year declined 9 percent in this same period.

Percent change in the number of full-time graduate students receiving major support as teaching assistants, by citizenship and level of study, 1967-70[a]

Citizenship and level of study	Percent change 1967-68	Percent change 1968-69	Percent change 1969-70
Total	4.9	3.5	4.2
First year	—1.2	3.1	—6.2
Beyond first year	8.3	3.7	9.5
U.S. citizens	2.6	1.4	4.1
First year	—4.5	1.6	— 3.6
Beyond first year	6.8	1.2	8.0
Foreign students	16.2	13.2	4.7
First year	17.0	9.7	—17.3
Beyond first year	15.8	15.0	15.5

[a] Based on 2,236 doctorate departments reporting in each of the 4 years, as shown in appendix table C–15A.

OTHER TYPES OF SUPPORT

- The students who were primari
for support accounted for 27
departments in 1970. Nearly
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- Students supported by "other'
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1968-69	1969-70
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3.1	—6.2
3.7	9.5
1.4	4.1
1.6	— 3.6
1.2	8.0
13.2	4.7
9.7	—17.3
15.0	15.5

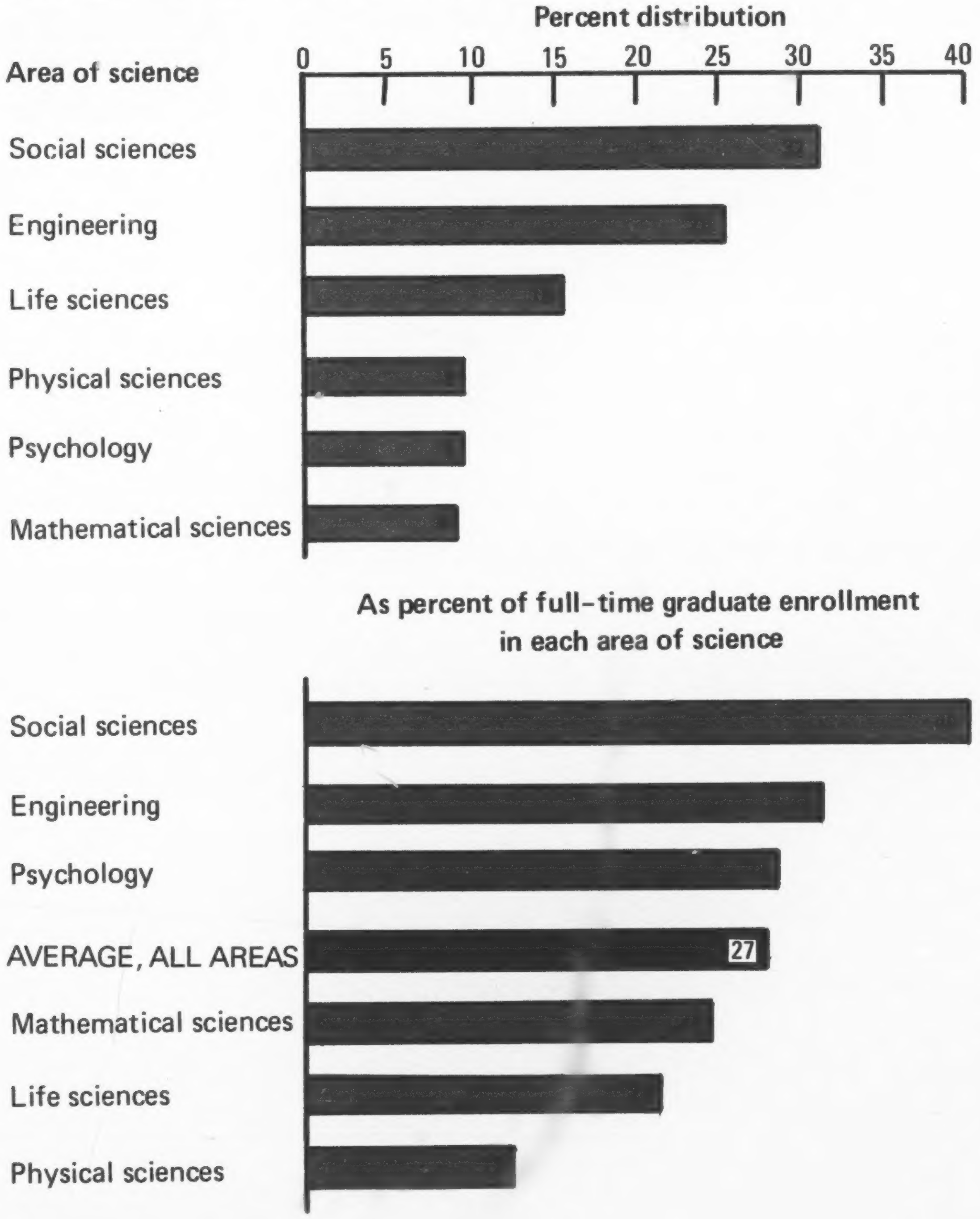
the 4 years, as shown in appendix

OTHER TYPES OF SUPPORT

- The students who were primarily dependent upon themselves or their families for support accounted for 27 percent of all graduate students in doctorate departments in 1970. Nearly one-third of this group were enrolled in the social sciences and another one-fourth in engineering.
- Students supported by "other" mechanisms and by teaching assistantships showed increases between 1969 and 1970 while the other two forms declined. The 2-percent increase in the number of self-supported students represented a marked reduction from previous rates of growth.
- Since every category of support experienced a decline in first-year enrollment, it is interesting to see that the number of students in the "other" mechanisms category declined the least, less than 1 percent, from 1969 to 1970. Foreign first-year students declined in each category of support except "other" types, although dropping sharply in its rate of growth.
- Only teaching assistants and self-supported students experienced an increase in beyond-first-year students, 10 percent and 5 percent, respectively, from 1969 to 1970.

(For more detailed data on this section, see appendix tables C-6, C-7, and C-14A through C-14G.)

Full-time graduate students receiving major support through "other" mechanisms, 1970 a/



a/ Primarily self-support.

SOURCE: National Science Foundation (appendix table C-7).

Percent change in the n
receiving major supp
by citizenship a

Citizenship and level of study
Total
First year
Beyond first year
U.S. citizens
First year
Beyond first year
Foreign students
First year
Beyond first year

a Based on 2,236 doctorate departme
table C–15A.

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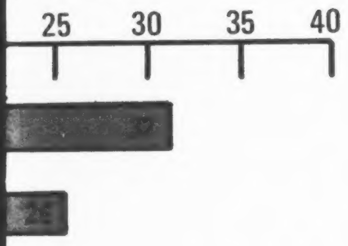

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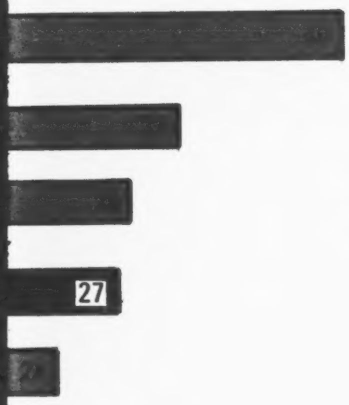

Percent change in the number of full-time graduate students receiving major support through "other" mechanisms, by citizenship and level of study, 1967-70[a]

Citizenship and level of study	Percent change		
	1967-68	1968-69	1969-70
Total	5.6	11.9	2.2
First year	—1.1	13.6	— .6
Beyond first year	11.7	10.5	4.5
U.S. citizens	3.7	10.9	1.4
First year	—5.1	12.5	—1.1
Beyond first year	11.4	9.6	3.3
Foreign students	14.2	16.0	5.2
First year	15.2	17.1	.8
Beyond first year	13.1	14.9	10.0

[a] Based on 2,236 doctorate departments reporting in each of the 4 years, as shown in appendix table C-15A.

SECTION III.

sources of major support of full-time graduate students in doctora

Since scientific advancement is directly related to the training of researchers of high quality, and since this training is usually provided through formalized graduate study leading to the Ph.D., the availability of adequate financial support for students in graduate programs assumes crucial importance.

The educational institutions providing these programs have always depended heavily on public and private assistance, since tuition, endowment earnings, and other regular sources of income cover only a small part of the total financial outlays required for the staffing and maintaining of a graduate program. The pressures of increased demands for education, research, and public services, combined with inflationary pressures and competing demands for public and private philanthropy, have presented formidable problems which, in turn, are aggravated by a leveling of Federal support of graduate education. The impact of these factors on graduate enrollments and on the methods used by graduate students to finance themselves cannot but be consequential. In this section, more details concerning the various mechanisms of support are discussed, relating each type to the many sources of support utilized by graduate students. It is important to remember that "major" support refers to any stipend of $1,200 or more, exclusive of tuition and self-support, during the academic year. In cases of multiple sources of support, only the major source was requested, and a student was counted only once under that source.

ALL SOURCES OF MAJOR SU

- Four-fifths of all full-time
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time graduate students in doctorate departments

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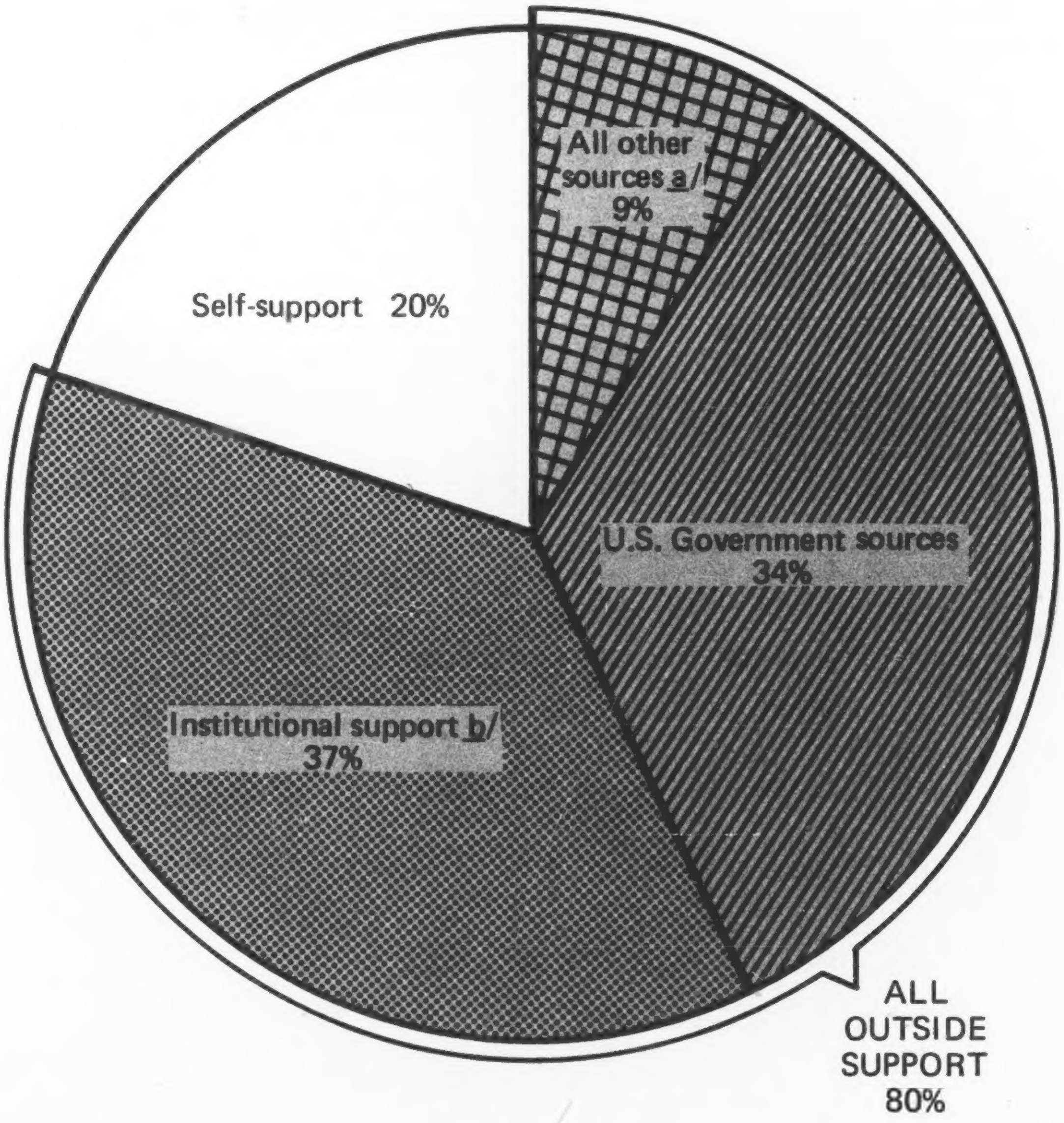
ALL SOURCES OF MAJOR SUPPORT

- Four-fifths of all full-time graduate students in 1970 received major support from outside sources. Institutional support replaced the Federal Government as the primary source in terms of number of students supported.

Sources of major support of full-time graduate students in doctorate departments, 1970



a/ Includes private foundations, industry, and foreign sources.

b/ Includes institutions and State and local governments.

SOURCE: National Science Foundation (appendix table C-8)

- The U.S. Governm ships, and nearly Virtually all of t financed through i

Percent distribution
by

Source of major suppor

Total (number)

Total

U.S. Government
Institutional support[a]
Self-support
All other sources[b]

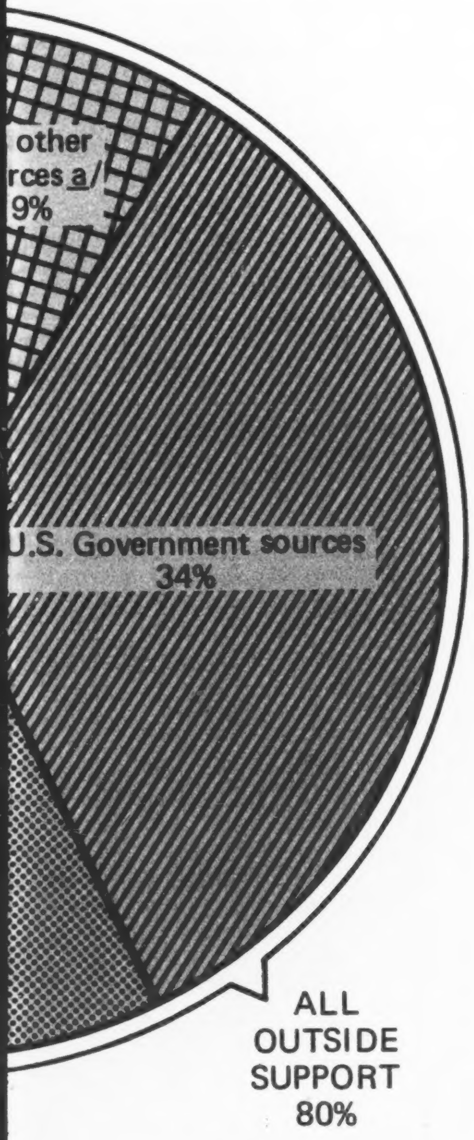
Total

U.S. Government
Institutional support
Self-support
All other sources

[a] Includes institutions and S
[b] See appendix table C-9 fo and all other outside sou

-time graduate students

- The U.S. Government supported two-thirds of all fellowships and traineeships, and nearly as high a proportion of the research assistantships. Virtually all of the teaching assistantships reported, 98 percent, were financed through institutional support.



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C-8)

Percent distribution of full-time graduate students in doctorate departments, by source and type of major support, 1970

Source of major support	Total	Fellowships and traineeship	Research assistantships	Teaching assistantships	Other types of support
Total (number)	145,970	40,416	31,211	35,594	38,749
	Percent distribution, by source				
Total	100.0	100.0	100.0	100.0	100.0
U.S. Government	34.4	66.8	63.5	1.0	8.0
Institutional support[a]	36.9	18.1	29.3	98.2	6.1
Self-support	19.5	—	—	—	73.6
All other sources[b]	9.2	15.1	7.3	.8	12.3
	Percent distribution, by type				
Total	100.0	27.7	21.4	24.4	26.5
U.S. Government	100.0	53.7	39.4	.7	6.1
Institutional support	100.0	13.6	17.0	65.0	4.4
Self-support	100.0	—	—	—	100.0
All other sources	100.0	45.5	16.9	2.1	35.6

[a] Includes institutions and State and local governments.

[b] See appendix table C-9 for separate data on industry, private foundations, foreign, and all other outside sources.

AREAS OF SCIENCE

- In most areas of science, the same two sources of support, institutional and Federal, tended to be predominant — they supported three-fourths, or more, of the full-time graduate students in the physical sciences, the mathematical sciences, the life sciences, and in psychology.
- The major exception was the social sciences, in which self-support far outranked Federal support; nearly as many students in the social sciences relied on their own funds as on institutional support.
- Students rec
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Percent distribution of full-time graduate students in doc
by source of major support and area of scien

Source of major support	Total	Engineering	Physical sciences	Mathemati sciences
Total (number)	145,970	31,491	29,522	12,155
	Percent dist			
Total	100.0	100.0	100.0	100.0
U.S. Government	34.4	38.7	40.9	24.2
Institutional support[a]	36.9	26.8	43.9	53.7
Self-support	19.5	20.5	8.2	16.6
All other sources[b]	9.2	14.0	7.0	5.5
	Percent distribu			
Total	100.0	21.6	20.2	8.3
U.S. Government	100.0	24.3	24.1	5.8
Institutional support	100.0	15.7	24.1	12.1
Self-support	100.0	22.6	8.5	7.1
All other sources	100.0	33.0	15.4	5.0

[a] Includes institutions and State and local governments.

[b] See appendix table C-8 for separate data on industry, private foundations, foreign, an

s of support, institutional and
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in which self-support far out-
ts in the social sciences relied

- Students receiving major support from other sources — including industrial firms, nonprofit organizations, and foreign sources — varied from a high of 14 percent in engineering to less than 6 percent in the mathematical sciences and psychology.

t distribution of full-time graduate students in doctorate departments, by source of major support and area of science, 1970

ort	Total	Engineering	Physical sciences	Mathematical sciences	Life sciences	Psychology	Social sciences
	145,970	31,491	29,522	12,155	29,668	12,656	30,478
	Percent distribution, by source						
	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	34.4	38.7	40.9	24.2	39.5	40.5	20.3
	36.9	26.8	43.9	53.7	36.0	34.0	35.8
	19.5	20.5	8.2	16.6	15.9	19.7	34.2
	9.2	14.0	7.0	5.5	8.6	5.8	9.7
	Percent distribution, by area of science						
	100.0	21.6	20.2	8.3	20.3	8.7	20.9
	100.0	24.3	24.1	5.8	23.3	10.2	12.3
	100.0	15.7	24.1	12.1	19.9	8.0	20.3
	100.0	22.6	8.5	7.1	16.6	8.7	36.5
	100.0	33.0	15.4	5.0	19.0	5.5	22.2

nd State and local governments.

B for separate data on industry, private foundations, foreign, and all other outside sources.

- The number of students receiving institutional support increased throughout 1967-70, while those supported by the U.S. Government decreased. Thus in 1970, for the first time in recent years, institutional support outranked the Federal Government in terms of number of students supported.
- Self-support also rose continually throughout 1967-70, while the number of students receiving support from all other sources fluctuated erratically.

Percent change in the number of full-time graduate students in doctorate departments, by source of major support, 1967-70[a]

Source of major support	Percent change		
	1967-68	1968-69	1969-70
Total	2.6	1.4	—0.9
U.S. Government	—1.9	—6.0	—6.3
Institutional support[b]	5.8	3.4	2.5
Self-support	14.8	15.0	4.2
All other sources	—7.5	2.5	—2.5

[a] Based on 2,236 doctorate departments reporting in each of the 4 years, as shown in appendix table C-14A.

[b] Includes institutions and State and local governments.

U.S. GOVERNMENT

- Fellowships-traineeships remained the most commonly used mechanism for Federal support of graduate students, with more than one-half of the federally supported students falling into this category. An additional two-fifths were supported through research assistantships. Only 7 percent of those supported by the Federal Government received teaching assistantships or other types of support.
- Almost three-fourths of the graduate students supported by the Federal Government were distributed relatively evenly among engineering and the physical and life sciences.

Distribution of full-time gra
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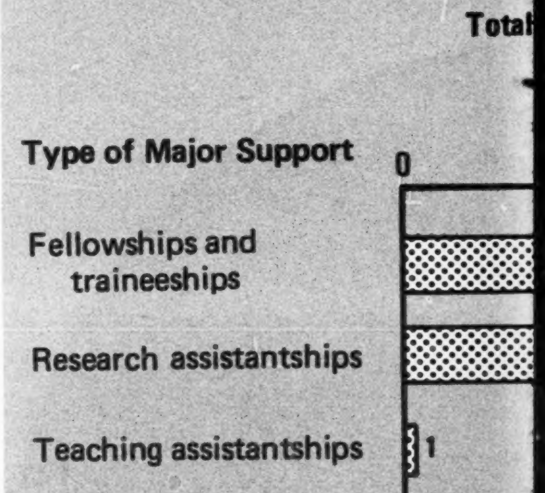

SOURCE: National Science Foundation (a

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1968-69	1969-70
1.4	—0.9
—6.0	—6.3
3.4	2.5
15.0	4.2
2.5	—2.5

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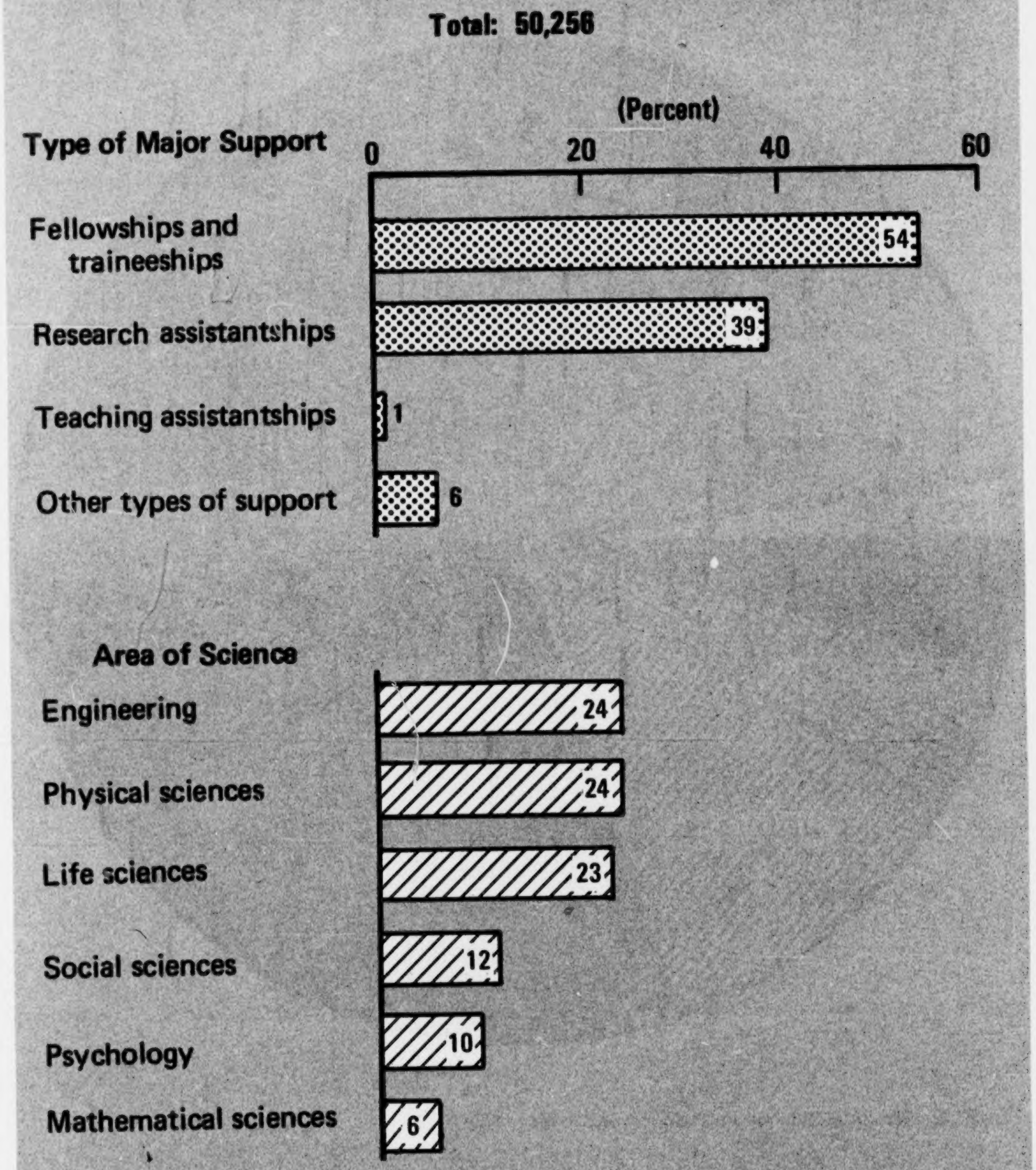
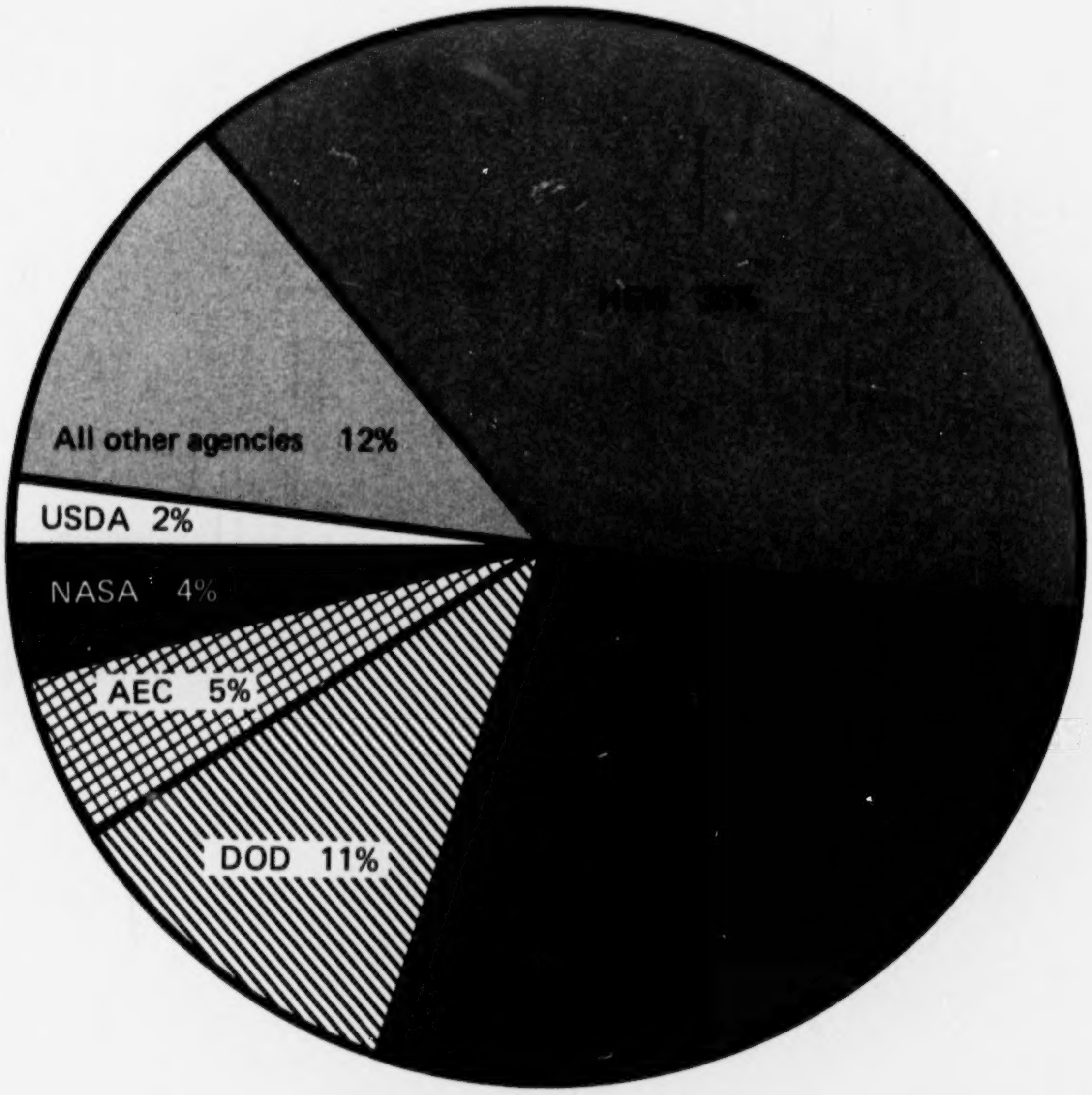
Distribution of full-time graduate students supported by the U.S. Government in doctorate departments, 1970



SOURCE: National Science Foundation (appendix tables C-9 and C-10).

Distribution of full-time graduate students supported by the U.S. Government in doctorate departments, by Federal agency, 1970



SOURCE: National Science Foundation (appendix table C-10).

- About two-thirds of all full-ti
on Federal funds were supp
remaining one-third were dist
- Significant variations in area
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- About two-thirds of all full-time graduate students who depended primarily on Federal funds were supported by two agencies: HEW and NSF. The remaining one-third were distributed among all other agencies.
- Significant variations in area-of-science distribution occurred among students supported by the various agencies, depending upon the agency's mission. Thus, between 80 percent and 90 percent of the students supported by the Atomic Energy Commission, the Department of Defense, and the National Aeronautics and Space Administration were enrolled in engineering and the physical sciences. More than three-fourths of those supported by the Department of Agriculture were in the life sciences, while those supported by the Department of Health, Education, and Welfare were concentrated in the life and social sciences and psychology.

Percent distribution of full-time graduate students supported by the U.S. Government in doctorate departments, by Federal agency and area of science, 1970

Federal agency	Total	Engineering	Physical sciences	Mathematical sciences	Life sciences	Psychology	Social sciences
Total, all agencies	100.0	24.3	24.1	5.8	23.3	10.2	12.3
Atomic Energy Commission	100.0	29.6	58.5	1.5	6.7	.1	3.5
Department of Agriculture	100.0	5.4	1.1	.8	76.9	—	15.8
Department of Defense	100.0	55.6	27.9	5.9	2.8	2.5	5.2
Department of Health, Education, and Welfare	100.0	10.5	12.3	2.9	37.7	18.9	17.7
National Aeronautics and Space Administration	100.0	52.2	34.0	3.6	6.4	2.0	1.9
National Science Foundation	100.0	23.4	36.0	12.6	14.5	3.7	9.7
All other agencies	100.0	33.3	15.3	3.2	19.9	13.9	14.4

- The number of graduate students supported by the Federal Government through the two most commonly used mechanisms, fellowships-traineeships and research assistantships, declined throughout 1967-70, the former more rapidly than the latter in the last 2 years. Teaching assistantships and other types of support, after an initial decline, increased during 1968-70, though not enough to counterbalance the declines in fellowships-traineeships and research assistantships.
- The decline in federally supported students was felt in all areas of science, though earlier in some areas than in others. The number of federally financed graduate students in engineering and the physical and mathematical sciences declined throughout the period for which these data are available; the declines in the life and social sciences date from 1968 to 1969, and the decline in psychology occurred only in the most recent year, 1970 compared with 1969.
- The number of U.S. citizens receiving Federal support declined throughout 1967-70, while foreign students receiving Federal support increased, though less rapidly between 1969 and 1970 than earlier.

Percent chang
by the U

Total ....
Type of major suppo
Fellowships and
Research assis
Teaching assist
Other types of s
Area of science:
Engineering ....
Physical scienc
Mathematical s
Life sciences ..
Psychology ......
Social sciences
Citizenship:
U.S. citizens ....
Foreign studen

a Based on 2,236
tables C-14A through C-

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these data are available; the
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recent year, 1970 compared

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Percent change in the number of full-time graduate students supported by the U.S. Government in doctorate departments, 1967-70[a]

Item	Percent change		
	1967-68	1968-69	1969-70
Total	— 1.9	— 6.0	— 6.3
Type of major support:			
Fellowships and traineeships	— .1	—10.3	—10.7
Research assistantships	— 3.6	— 2.0	— 1.2
Teaching assistantships	—24.8	28.8	13.6
Other types of support	— 6.3	12.0	.2
Area of science:			
Engineering	— 6.3	— 5.6	— 1.7
Physical sciences	— 3.6	— 9.0	— 9.1
Mathematical sciences	— 2.4	— 8.1	—14.4
Life sciences	.4	— 5.0	— 7.1
Psychology	5.4	3.0	— 2.6
Social sciences	2.7	— 7.2	— 6.8
Citizenship:			
U.S. citizens	— 2.9	— 7.7	— 7.7
Foreign students	6.8	6.8	2.8

[a] Based on 2,236 doctorate departments reporting in each of the 4 years, as shown in appendix tables C-14A through C-14G.

INSTITUTIONAL SUPPORT

- The teaching assistantship was the primary mechanism for institutional support of graduate students, accounting for nearly two-thirds of the students receiving such support.
- Of the students receiving institutional support, nearly one-fourth were in the physical sciences; the social and life sciences each accounted for about one-fifth.

Distribution of full-time grad
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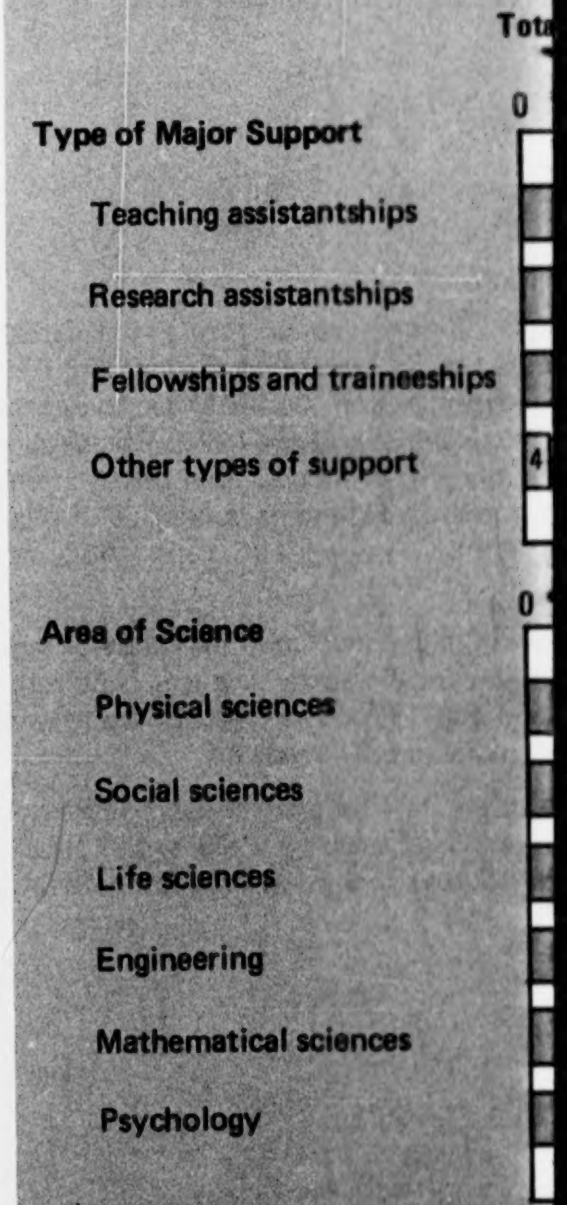

a/ Includes institutions and State and local g

SOURCE: National Science foundation (appe

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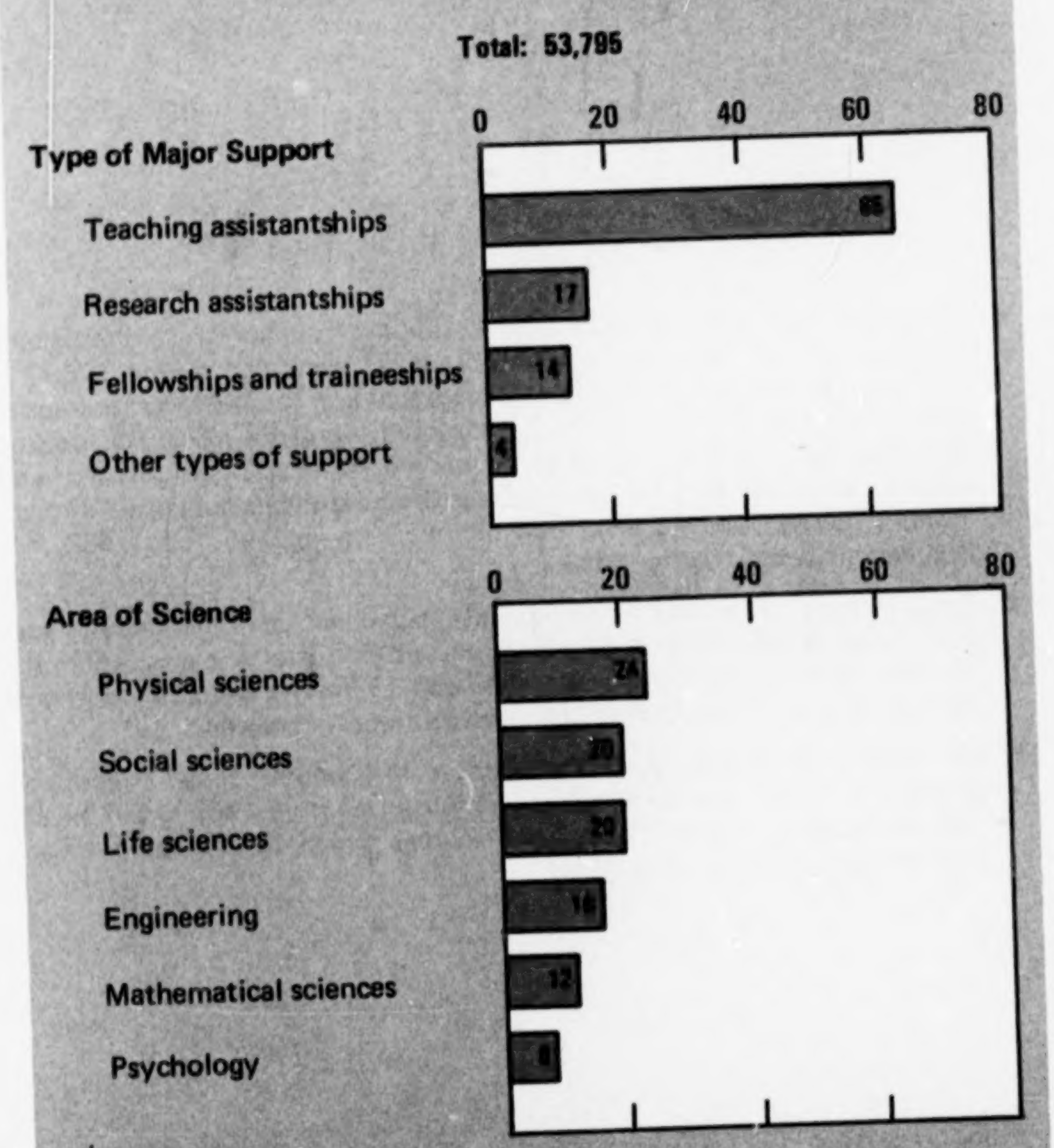
Distribution of full-time graduate students receiving institutional support in doctorate departments, 1970 a/



a/ Includes institutions and State and local governments.

SOURCE: National Science foundation (appendix tables C-9 and C-11).

- The number of students receiving institutional support rose throughout 1967-70, though the rate of increase slowed somewhat during 1969-70. The number supported through fellowships and traineeships increased rapidly between 1967 and 1969, but declined slightly in 1970. This decline was more than made up, however, by the steady increases in research and teaching assistantships. The number of graduate students supported through "other" mechanisms declined only slightly between 1967 and 1968, but declined more rapidly after 1968.
- The increases in the number of students depending upon institutional support characterized all areas of science except the social sciences, where the number declined slightly between 1969 and 1970. The largest proportional increase during 1969-70 was in the mathematical sciences.
- The number of foreign students receiving institutional support increased greatly from 1967 and 1969 but at a reduced rate from 1969 to 1970. U.S. citizens receiving support from these sources increased at a rather steady pace throughout the entire period.

Percent change in the num
institutional suppor

Item
Total ....
Type of major support:
Fellowships and traineeships
Research assistantships ......
Teaching assistantships ....
Other types of support ....
Area of science:
Engineering ....
Physical sciences ....
Mathematical sciences ....
Life sciences ....
Psychology ....
Social sciences ....
Citizenship:
U.S. citizens ....
Foreign students ....

a Includes institutions and State an
b Based on 2,236 doctorate depart
tables C-14A through C-14G.

support rose throughout somewhat during 1969-70. nd traineeships increased ightly in 1970. This decline increases in research and students supported through ween 1967 and 1968, but

ding upon institutional sup- e social sciences, where the 0. The largest proportional cal sciences.

itutional support increased te from 1969 to 1970. U.S. ncreased at a rather steady

Percent change in the number of full-time graduate students receiving institutional support in doctorate departments, 1967-70[a]

Item	Percent change[b]		
	1967-68	1968-69	1969-70
Total	5.8	3.4	2.5
Type of major support:			
Fellowships and traineeships	14.5	8.4	—1.5
Research assistantships	4.1	1.8	4.4
Teaching assistantships	5.1	3.5	3.7
Other types of support	—.8	—6.9	—7.3
Area of science:			
Engineering	3.1	5.4	5.1
Physical sciences	5.8	1.3	1.2
Mathematical sciences	5.1	1.3	7.5
Life sciences	4.1	4.9	2.1
Psychology	13.6	3.8	5.0
Social sciences	7.3	4.7	—1.4
Citizenship:			
U.S. citizens	3.8	1.3	2.7
Foreign students	14.2	11.4	1.9

[a] Includes institutions and State and local governments.

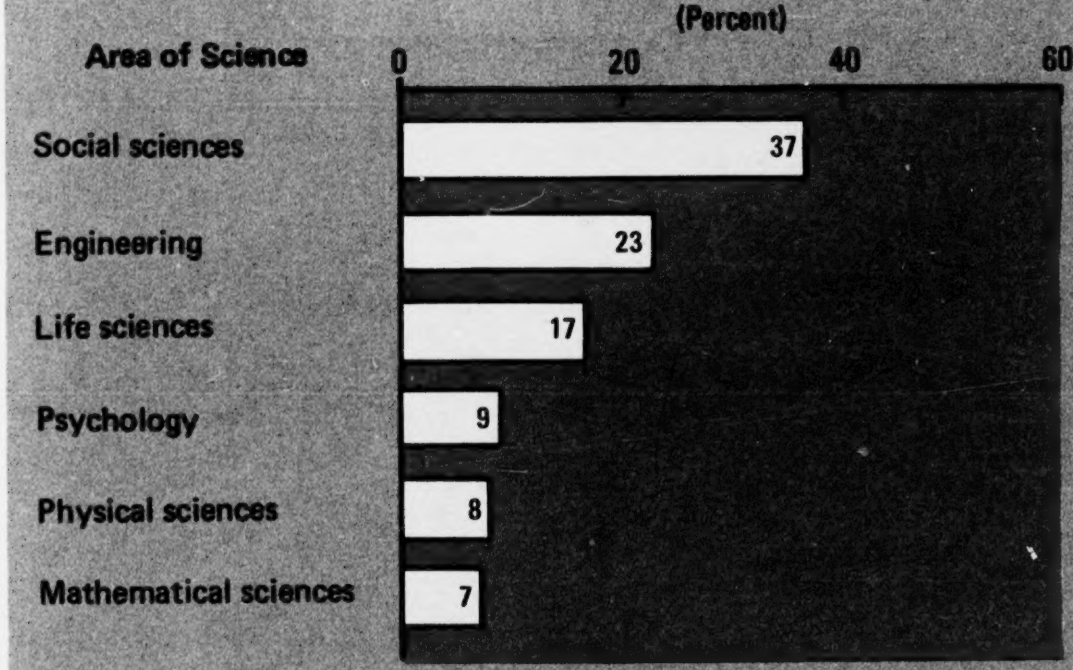
[b] Based on 2,236 doctorate departments reporting in each of the 4 years, as shown in appendix tables C-14A through C-14G.

SELF-SUPPORT

- Graduate students in the social sciences made up the largest group of those depending upon their own resources for financing, nearly two-fifths of the total. The second largest number of students relying on their own funds were those in engineering, who accounted for almost one-fourth of the total.
- On the other hand, graduate students in psychology, the physical sciences, and the mathematical sciences each made up less than 10 percent of those in the self-support category. In psychology and the mathematical sciences, this was simply a reflection of the relatively small enrollments in these two areas; in the physical sciences, however, the small number dependent upon self-support was directly related to the relatively large amounts of outside support available from governmental and institutional sources.

Distribution of full-time graduate students depending primarily on self-support in doctorate departments, 1970

Total: 28,516



SOURCE: National Science Foundation (appendix table C-11).

- With the increasing restricti
economic and budgetary fa
their own resources for finar
out 1967-70, although the
- The number of graduate st
percent in engineering and
1970.
- The increases were much la
U.S. citizens also experienc
1967 and 1970.

**Percent change in the
depending on self-supp**

Item
Total ....
Area of science:
Engineering ....
Physical sciences ....
Mathematical sciences ....
Life sciences ....
Psychology ....
Social sciences ....
Citizenship:
U.S. citizens ....
Foreign students ....

a Based on 2,236 doctorate depart
tables C-14A through C-14G.

the largest group of those
ng, nearly two-fifths of the
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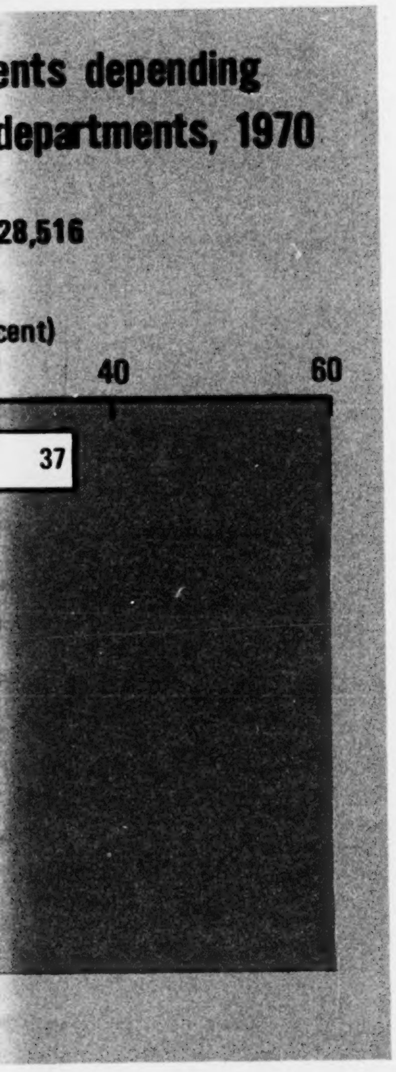

- With the increasing restriction on funding from outside sources due to both economic and budgetary factors, the number of students dependent upon their own resources for financing their graduate education increased throughout 1967-70, although the rate slowed considerably during 1969-70.
- The number of graduate students relying upon self-support increased 20 percent in engineering and 18 percent in the life sciences from 1969 to 1970.
- The increases were much larger proportionately in foreign students, although U.S. citizens also experienced significant increases in self-support between 1967 and 1970.

Percent change in the number of full-time graduate students depending on self-support in doctorate departments, 1967-70[a]

Item	Percent change		
	1967-68	1968-69	1969-70
Total	14.8	15.0	4.2
Area of science:			
Engineering	7.7	12.9	20.1
Physical sciences	15.3	12.9	—7.9
Mathematical sciences	3.2	.2	—4.5
Life sciences	24.7	12.0	18.0
Psychology	13.6	11.9	7.1
Social sciences	19.5	22.7	—5.3
Citizenship:			
U.S. citizens	11.7	13.6	3.6
Foreign students	29.7	20.8	6.6

[a] Based on 2,236 doctorate departments reporting in each of the 4 years, as shown in appendix tables C-14A through C-14G.

ALL OTHER SOURCES OF SUPPORT

- Other sources of graduate student support — industry, nonprofit organizations, and other U.S. and foreign sources — provided major funding to the smallest number of students, only about one-fourth as many as received institutional support, and less than one-half the number depending on self-support. The largest number of these were supported by fellowships and traineeships, followed by "other" types of support. Less than one-fifth were supported through research and teaching assistantships combined.
- About one-third of those receiving support from other sources were in engineering. The social and life sciences each accounted for about one-fifth of the total, while those in psychology and the mathematical sciences combined made up about one-tenth.
- Private foundations were the primary component of "other sources" in terms of the number of graduate students supported, while industrial firms ranked next in terms of numbers supported.

Distribution
all other so

Type of Major

Fellowships

Research as

Teaching as

Other types

Area of Scienc

Engineering

Social scien

Life science

Physical sci

Psychology

Mathematic

a/ Includes ind
SOURCE:

industry, nonprofit organiza-
rovided major funding to the
-fourth as many as received
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accounted for about one-fifth
the mathematical sciences

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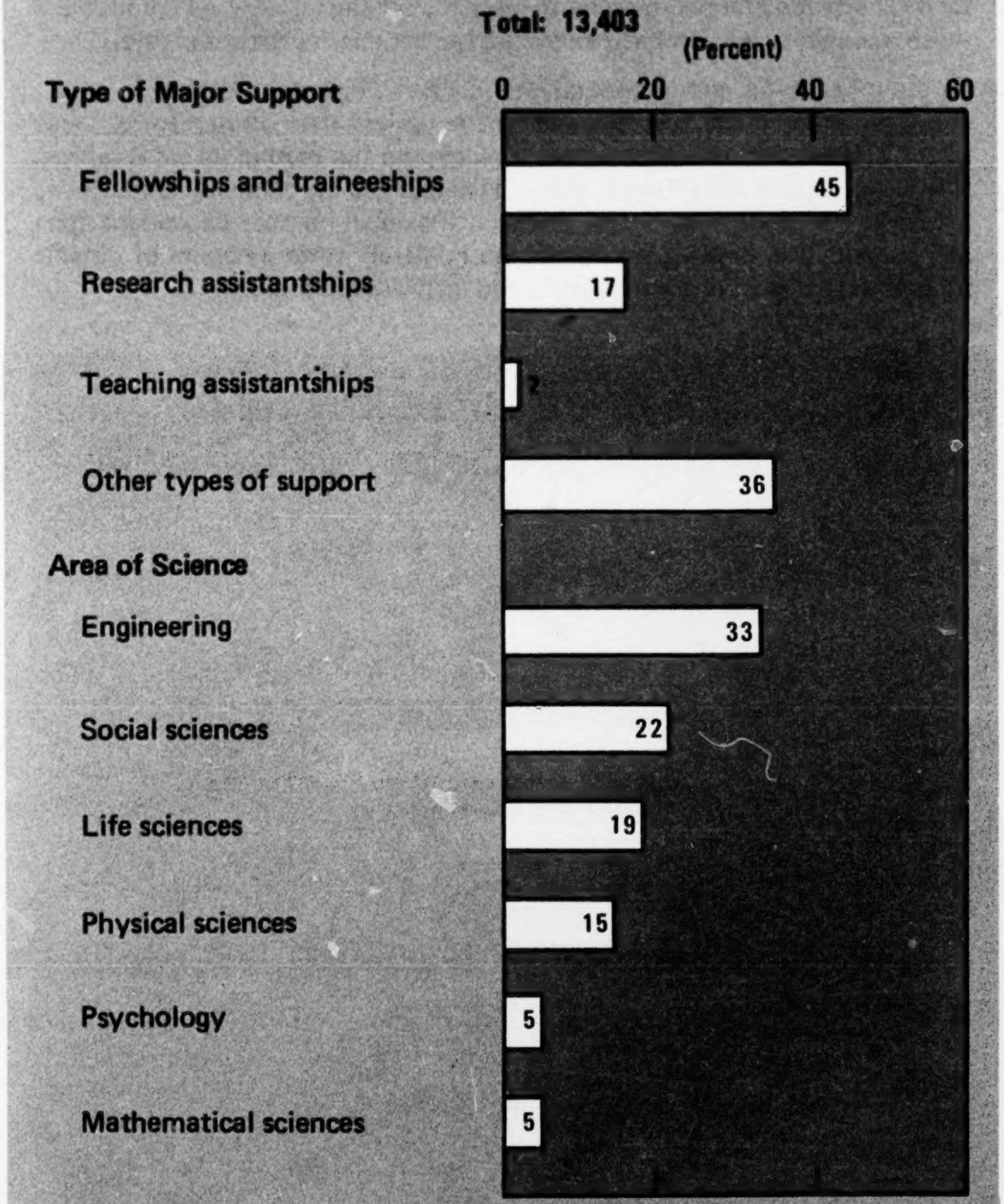
ported, while industrial firms

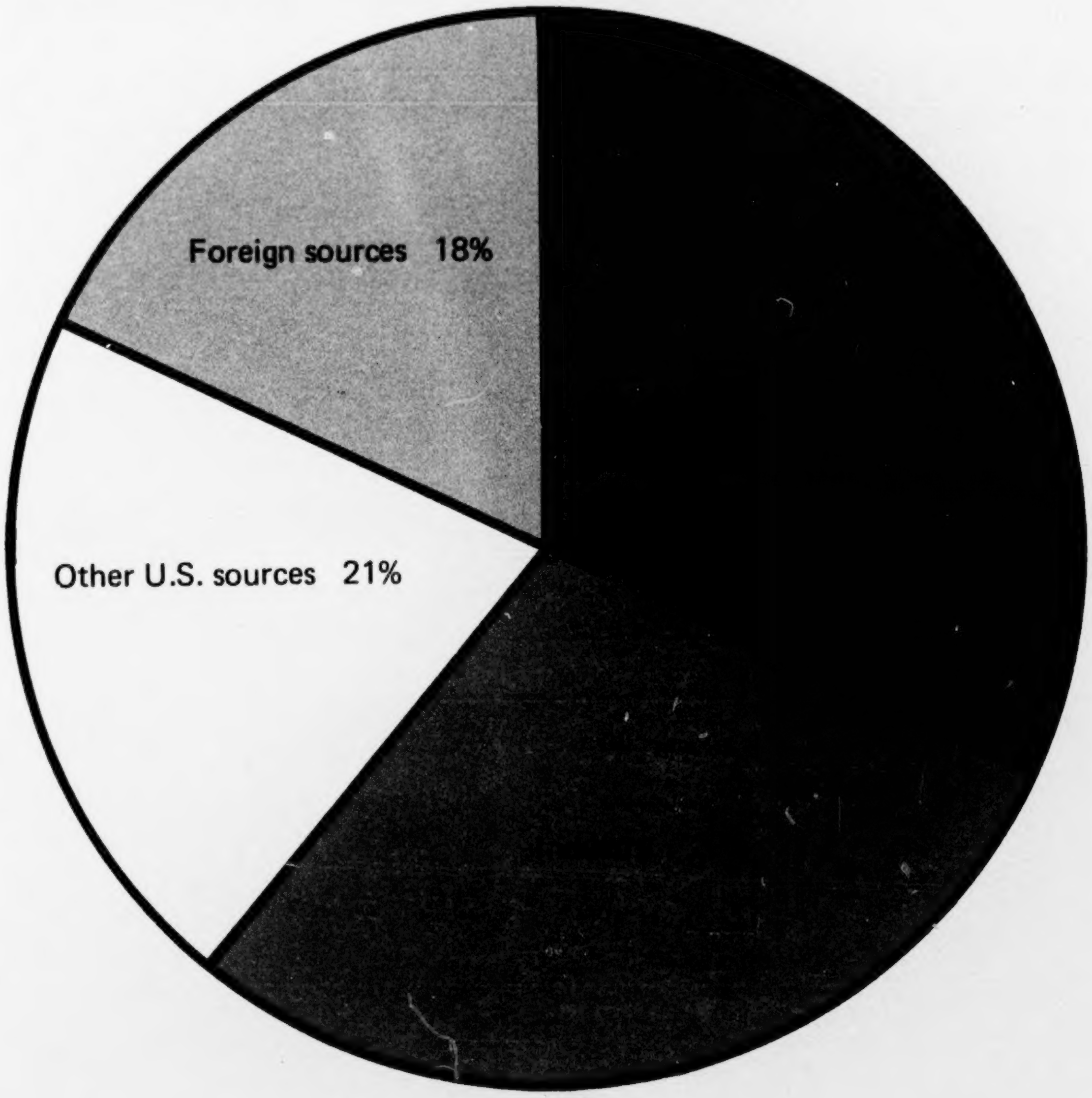
Distribution of full-time graduate students supported by all other sources in doctorate departments, 1970 [a]



[a] Includes industry, private foundations, foreign, and all other outside sources.

SOURCE: National Science Foundation (appendix tables C-9 and C-11).

Distribution of full-time graduate students supported by all other sources in doctorate departments, by individual source, 1970



SOURCE: National Science Foundation (appendix table C-8).

- "Other sources" supported fewe
since 1967. The number of stu
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from 1969 to 1970, while those s
than doubled.
- Declines were reported between
foreign students receiving suppo
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foreign students continued to inc
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Percent change in the num
supported by all other source

Item
Total
Type of major support:
Fellowships and traineeships
Research assistantships
Teaching assistantships
Other types of support
Area of science:
Engineering
Physical sciences
Mathematical sciences
Life sciences
Psychology
Social sciences
Citizenship:
U.S. citizens
Foreign students

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a Based on 2,236 doctorate departments
tables C-14A through C-14G. Data represents
side sources.

(For more detailed data on this se
C-14A through C-14G.)

ed by all
ial

- "Other sources" supported fewer graduate students in 1970 than any year since 1967. The number of students supported through fellowships and traineeships, research assistantships, and other types of support declined from 1969 to 1970, while those supported by teaching assistantships more than doubled.
- Declines were reported between 1967 and 1968 in both U.S. citizens and foreign students receiving support from other sources. Students supported by other sources increased in both categories between 1968 and 1969, and foreign students continued to increase, though more slowly, between 1969 and 1970. During the latter period, the increase in foreign students supported by foreign sources was more than offset by a decrease in those of U.S. citizenship.

Percent change in the number of full-time graduate students supported by all other sources in doctorate departments, 1967-70[a]

Item	Percent change		
	1967-68	1968-69	1969-70
Total	— 7.4	2.5	— 2.5
Type of major support:			
Fellowships and traineeships	— 2.5	1.2	— 2.1
Research assistantships	3.8	1.2	— 9.1
Teaching assistantships	20.2	—33.6	135.8
Other types of support	—18.9	6.4	— 3.3
Area of science:			
Engineering	— 2.8	2.4	—12.7
Physical sciences	1.2	— 4.7	1.4
Mathematical sciences	—26.2	8.4	4.8
Life sciences	—14.7	8.6	— 1.9
Psychology	8.8	29.5	— 4.8
Social sciences	—15.8	— 2.2	13.5
Citizenship:			
U.S. citizens	—10.0	.7	— 4.9
Foreign students	— 2.5	5.8	1.6

[a] Based on 2,236 doctorate departments reporting in each of the 4 years, as shown in appendix tables C-14A through C-14G. Data represents industry, private foundations, foreign, and all other outside sources.

(For more detailed data on this section, see appendix tables C-8 through C-11 and C-14A through C-14G.)

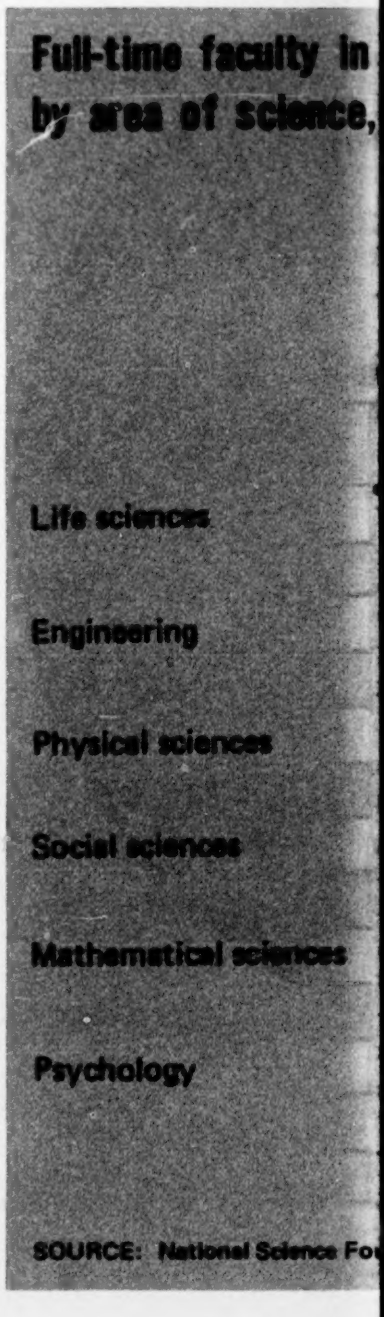
SECTION IV.

faculty and postdoctorals in doctorate departments

FACULTY

The term "faculty," as used in this report, refers to staff members with an academic rank of instructor or above who are significantly involved in the graduate **or** undergraduate programs of the institution. This involvement may include the teaching of one or more courses or seminars and/or directing the research of one or more students. Those with full-time appointments are differentiated from part-time faculty whose major responsibilities are outside the department. Part-time faculty includes university administrators, deans, affiliate professors, extension service staff, museum staff, etc. "Graduate faculty" refers to those who are significantly involved in the **graduate** program by teaching at least one graduate course or directing at least one graduate student.

- The number of full-time faculty in doctorate departments totaled 58,022 in 1970, of which 85 percent were classified as graduate faculty. More than one-fourth of the full-time faculty members reported were in the life sciences; those in engineering and the physical sciences each comprised about one-fifth of the total, while those in mathematics and psychology together made up only about one-sixth of the total.



Full-time faculty in
by area of science,

SOURCE: National Science Fo

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doctorate departments

rt, refers to staff members with
are significantly involved in the
nstitution. This involvement may
r seminars and/or directing the
full-time appointments are dif-
r responsibilities are outside the
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ff, etc. "Graduate faculty" refers
graduate program by teaching at
one graduate student.

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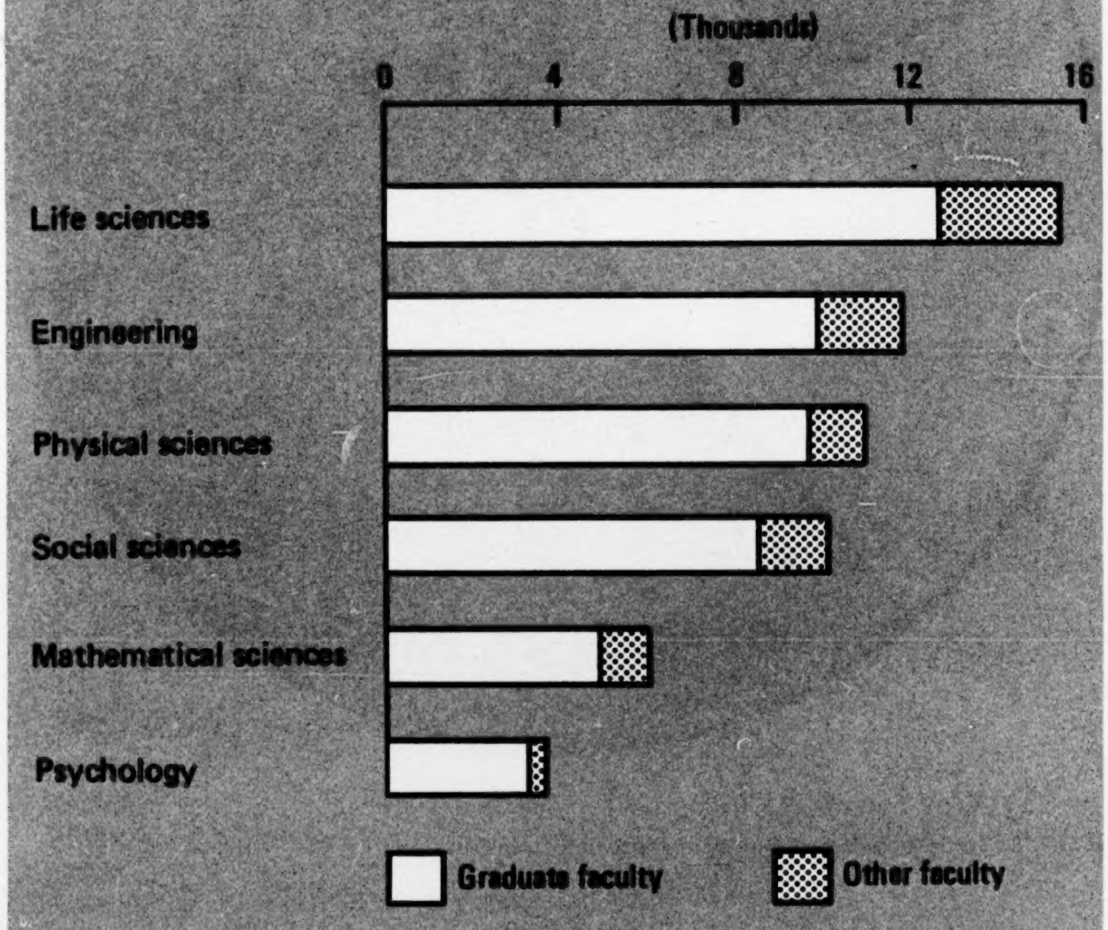
Full-time faculty in doctorate departments, by area of science, 1970

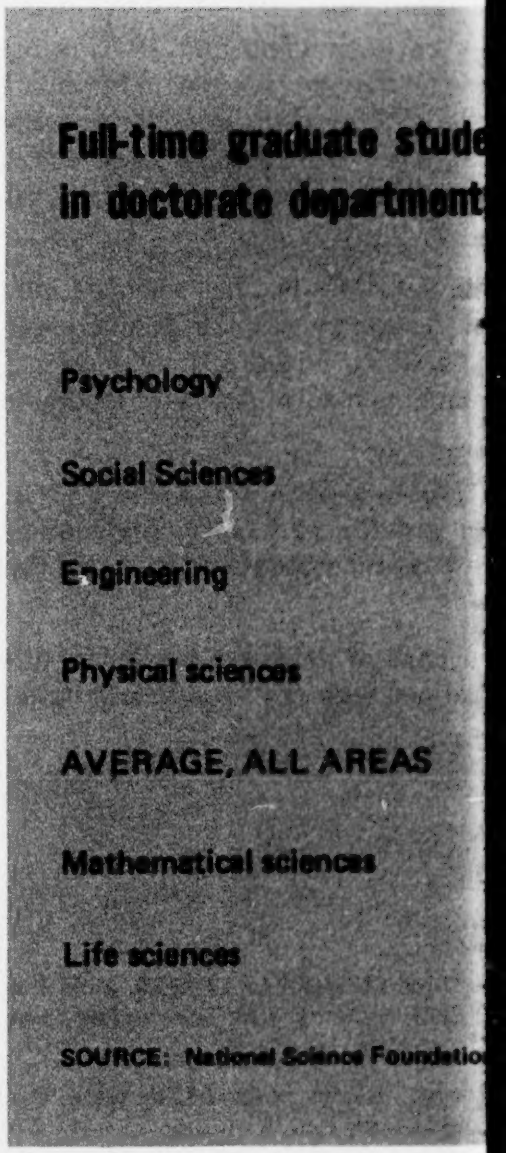
Total: 58,022



SOURCE: National Science Foundation (appendix table C-12)

STUDENT-FACULTY RATIOS

- When comparing full-time graduate enrollment with full-time graduate faculty, the ratio of 3.0 students per faculty member in 1970 represented a gradual reduction from the 3.3 ratio reported for 1966 in the first report of the series.[6]
- The graduate student-faculty ratio was highest in psychology and lowest in the life sciences. The ratio tends to be lowest in the natural sciences, where training at the graduate level relies heavily on experimentation. The growth rate in psychology has been so high at both undergraduate and graduate levels that faculty growth has evidently fallen behind.



SOURCE: National Science Foundatio

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[6] National Science Foundation, **Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1965 and Fall 1966** (NSF 68-13) (Washington, D.C. 20402: Supt. of Documents, U.S. Government Printing Office), p. 59.

ith full-time graduate
in 1970 represented a
56 in the first report of

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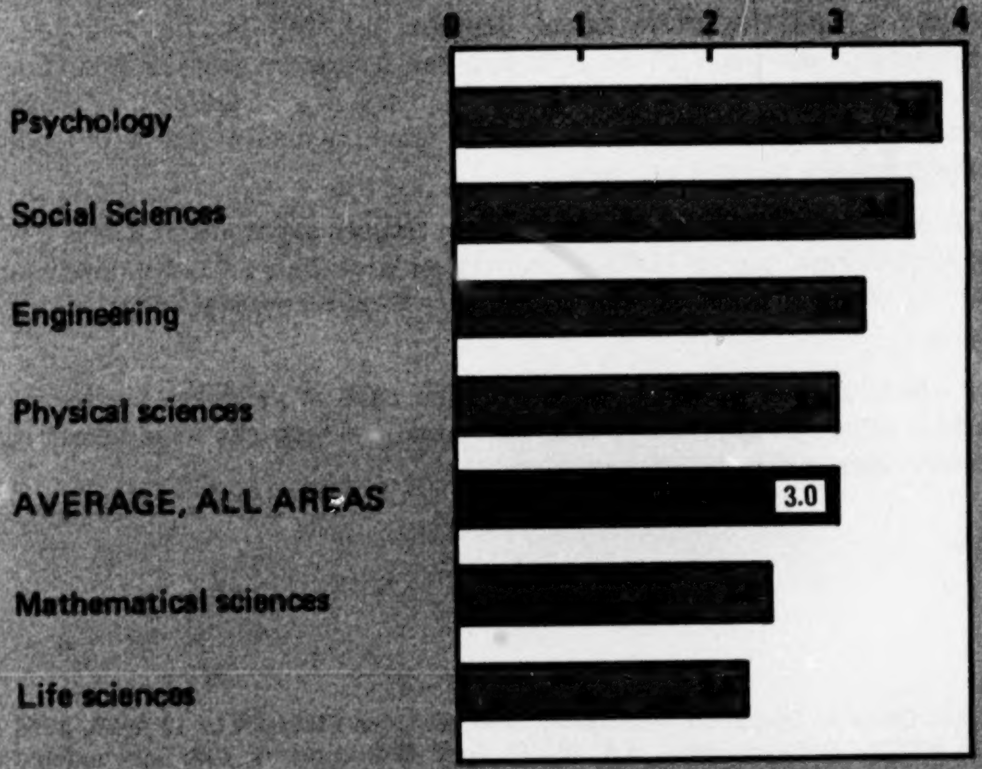
) (Washington, D.C. 20402:

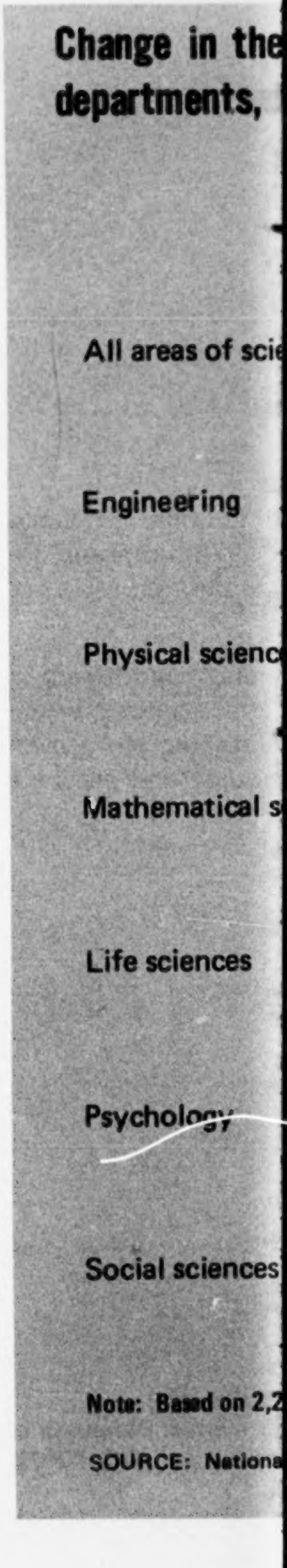
Full-time graduate students per graduate faculty member in doctorate departments, by area of science, 1970



SOURCE: National Science Foundation (appendix tables C-1 and C-12).

TRENDS

- Throughout the 4-year period covered in this report, the number of faculty in doctorate departments continued to increase, though more slowly each year.
- The 2-percent increase in full-time faculty between 1969 and 1970 is not necessarily inconsistent with the reported 2-percent decline in graduate enrollment during the same period because of the growth in undergraduate teaching responsibilities of faculty. For example, overall degree-credit enrollment at the undergraduate level increased an estimated 4 percent between fall 1969 and fall 1970.[7]
- Bachelor's and first-professional degrees awarded in the sciences and engineering increased 15 percent between academic year 1968 and 1969, based on the latest data available from the Office of Education.[8] This provides further evidence of the increase in teaching load of graduate faculty in undergraduate science courses.
- All areas of science except mathematical sciences experienced a slowdown in the growth rate during 1969-70 in number of full-time faculty. Engineering and the physical sciences showed the lowest rate increases; psychology, the highest.
- The situation was generally similar in the case of graduate faculty in this period, although psychology and mathematical sciences experienced lower growth rates in the preceding period.


Change in th
departments,

Note: Based on 2,2
SOURCE: Nationa

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[7] U.S. Office of Education, **Projections of Educational Statistics to 1978-79, 1969 Edition** (OE-10030-69) (Washington, D.C. 20402: Supt. of Documents, U.S. Government Printing Office), 1970, table 6, p. 23.

[8] U.S. Office of Education, **Earned Degrees Conferred,** various years. (Washington, D.C. 20402: Supt. of Documents, U.S. Government Printing Office).

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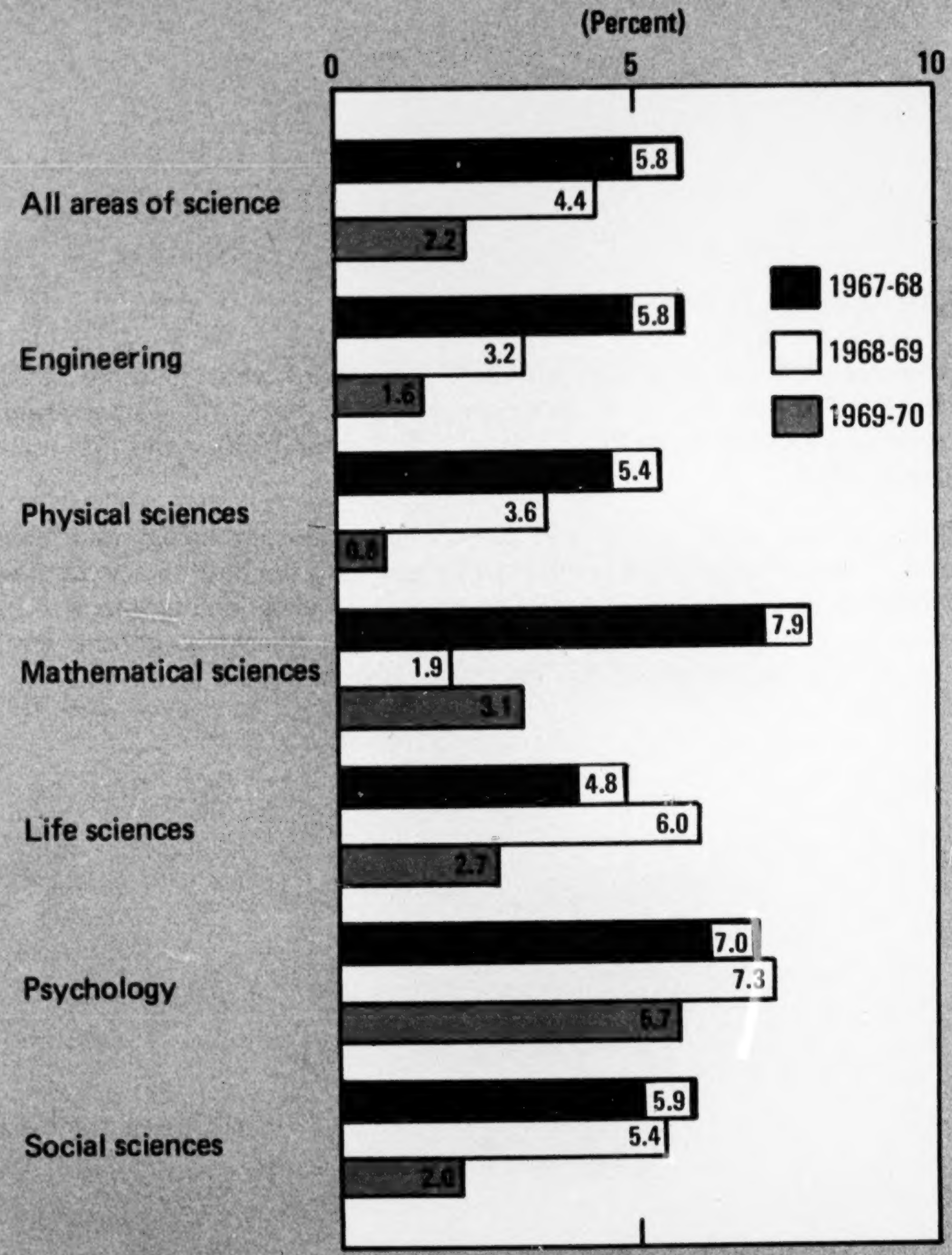
Change in the number of full-time faculty in doctorate departments, by area of science, 1967-70



Note: Based on 2,236 doctorate departments reporting in each of the 4 years.

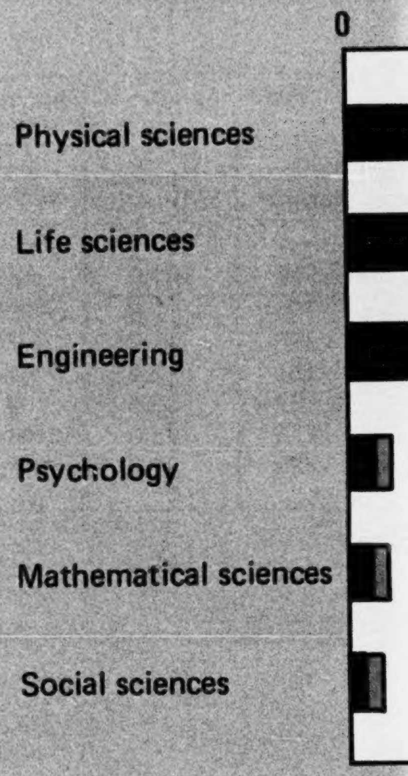
SOURCE: National Science Foundation (appendix table C-16).

POSTDOCTORALS

The increasing rigor of scientific education has led ever-larger numbers of doctorate recipients to continue or return for further training in their fields of specialization, primarily as members of research teams working under the general guidance of a senior investigator. Although primarily Ph.D.'s, these doctorate recipients also include M.D.'s to some extent. In the past year, a further incentive to postdoctoral study may have been the dwindling number of permanent appointments available for a growing number of doctorate recipients. These postdoctorals, or research associates as they are called in some institutions, are essentially full-time researchers without academic rank or permanent status at the host institution. In some institutions, however, they may perform some teaching functions, depending on what type of appointment they hold. Advantages accrue to both the host institution and the postdoctoral appointee from these arrangements. For example, the institution acquires — often at no cost, in the case of postgraduate fellowships sponsored by the Federal Government or nonprofit foundations — a needed researcher of high quality; while the postdoctoral fellow has the opportunity to acquire new skills and experience in his field of specialization and to enhance his qualification for a faculty appointment in a major university or a top research position in other sectors of the economy.[9]

- More than four-fifths of the 8,900 postdoctorals were reported in the physical and life sciences in 1970. This concentration corresponds closely with the availability of research funds to doctorate-granting institutions. The most recent study of research expenditures by area of science covers academic year 1967-68, when the physical, environmental, and life sciences combined accounted for 70 percent of the separately budgeted research expenditures of doctorate-granting institutions.[10]
- The concentration of recent postdoctorals — those receiving their doctorates in 1966 or later — was highest in the physical sciences, where they represented 76 percent of the total, and lowest in the social sciences, with only 44 percent falling into this category.

Postdoctorals in docto
of science, 1970



SOURCE: National Science Founda

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[9] For further background information on the origins and implications of the postdoctoral phenomenon, see National Academy of Sciences, **The Invisible University, Postdoctoral Education in the United States** (Washington, D.C.: National Academy of Sciences, 1969).

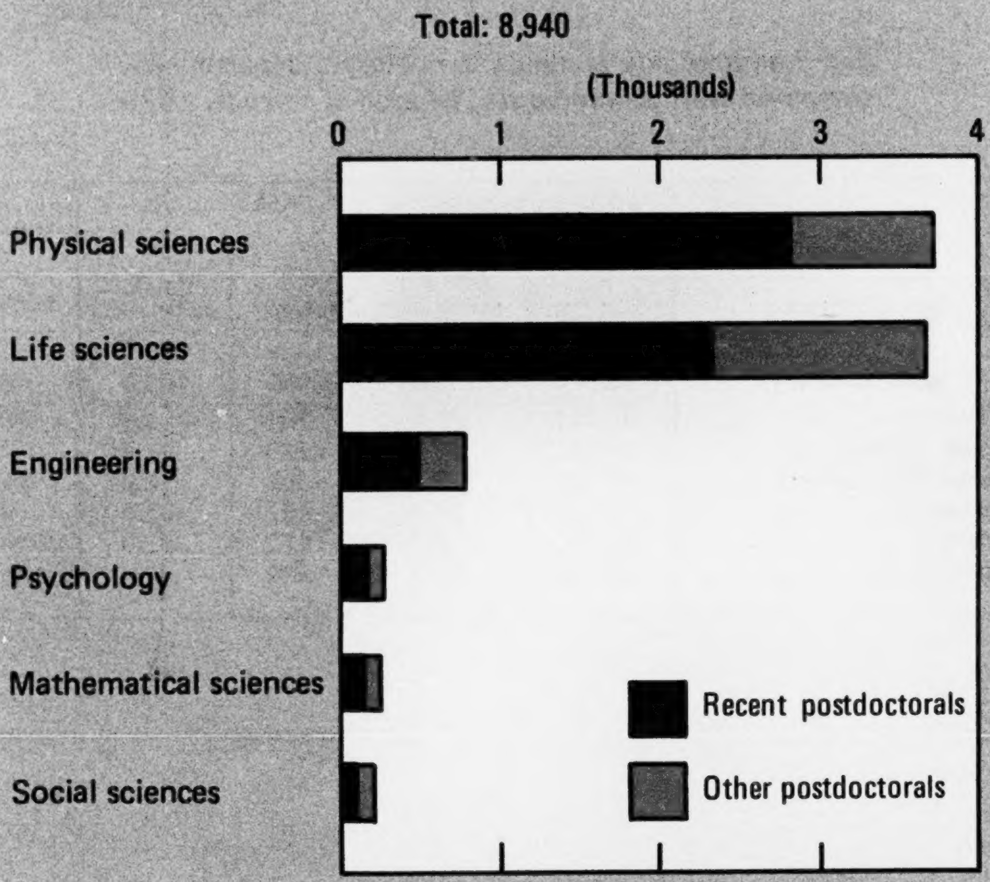
[10] National Science Foundation, **Resources for Scientific Activities at Universities and Colleges, 1969** (NSF 70-16) (Washington, D.C. 20402: Supt. of Documents, U.S. Government Printing Office), p. 89.

as led ever-larger numbers of her training in their fields of eams working under the gen- primarily Ph.D.'s, these doc- nt. In the past year, a further he dwindling number of per- nber of doctorate recipients. ey are called in some institu- academic rank or permanent , however, they may perform e of appointment they hold. d the postdoctoral appointee ution acquires — often at no sored by the Federal Govern- her of high quality; while the new skills and experience in fication for a faculty appoint- sition in other sectors of the

were reported in the physical corresponds closely with the nting institutions. The most of science covers academic l, and life sciences combined lgeted research expenditures

ose receiving their doctorates sciences, where they repre- he social sciences, with only

Postdoctorals in doctorate departments, by area of science, 1970



SOURCE: National Science Foundation (appendix table C-12)

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tific Activities at Universities and Supt. of Documents, U.S. Govern-

STUDENT-POSTDOCTORAL RATIOS

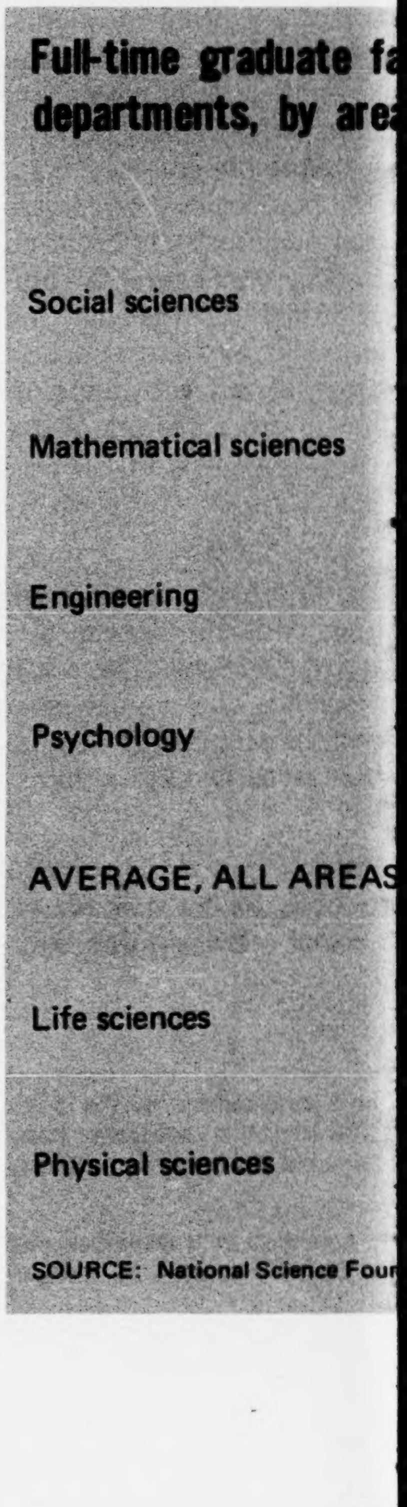
- The ratio of graduate students to postdoctorals was lowest in the physical and life sciences, where relatively large proportions of those receiving the doctorate in any year are likely to continue into postdoctoral work, and highest in the social sciences, where relatively few do so.
- The social sciences, which ranked second in number of full-time graduate students, ranked last in number of postdoctorals.

Full-time graduate students in doctorate departments, compared with postdoctorals, by area of science, 1970

Area of science	Full-time graduate students		Postdoctorals		Number of students per post-doctoral
	Number	Percent distribution	Number	Percent distribution	
Total, all areas	145,970	100.0	8,940	100.0	16.3
Engineering	31,491	21.6	791	8.8	39.8
Physical sciences	29,522	20.2	3,730	41.7	7.9
Mathematical sciences	12,155	8.3	255	2.9	47.7
Life sciences	29,668	20.3	3,667	41.0	8.1
Psychology	12,656	8.7	272	3.0	46.5
Social sciences	30,478	20.9	225	2.5	135.5

FACULTY-POSTDOCTORAL

- The physical sciences, w
of the full-time faculty,
social sciences, with less
of the faculty, had the h


**Full-time graduate fa
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SOURCE: National Science Fou

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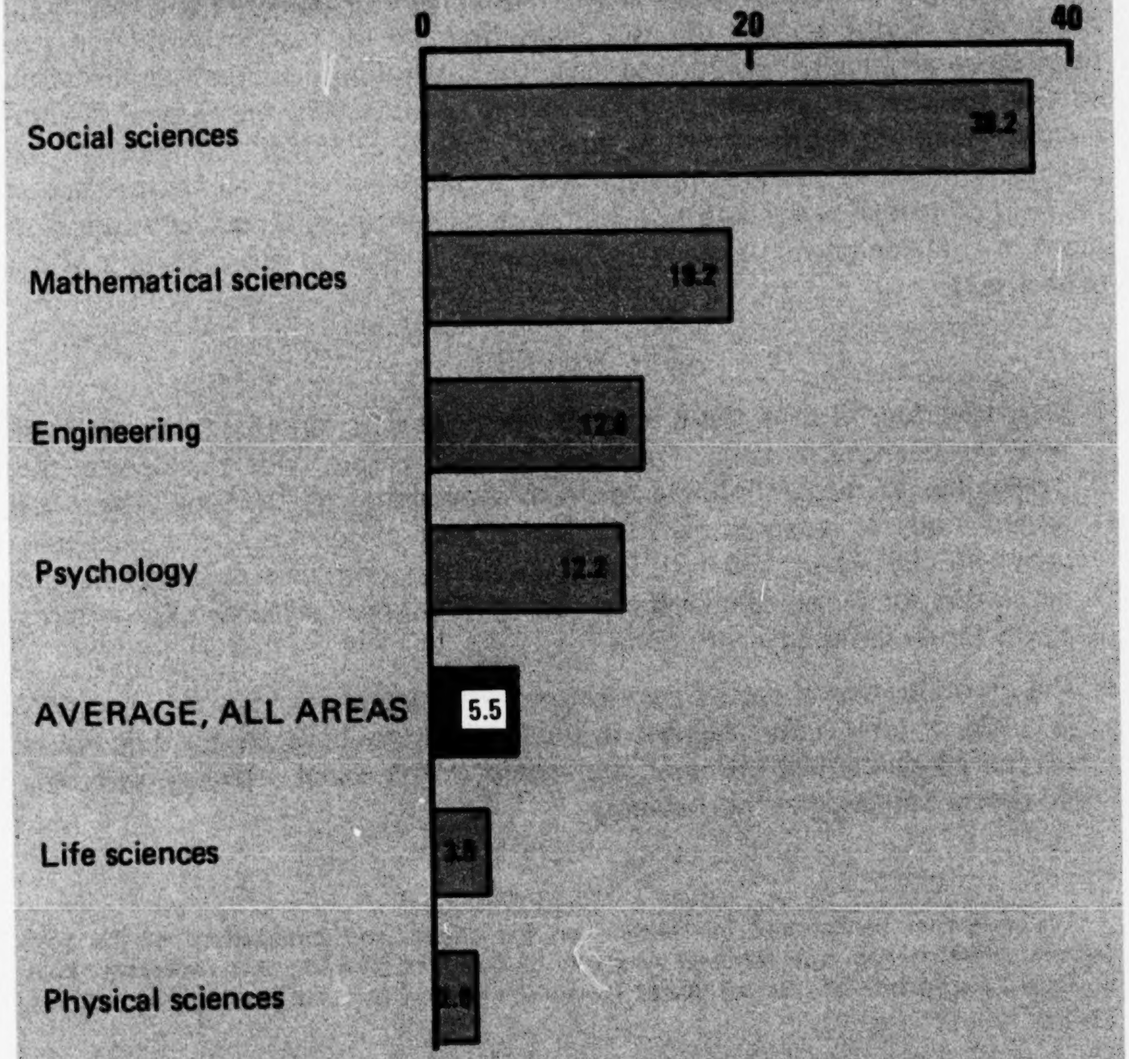
ostdoctorals		Number of students per post-doctoral
nber	Percent distribution	
940	100.0	16.3
791	8.8	39.8
730	41.7	7.9
255	2.9	47.7
567	41.0	8.1
272	3.0	46.5
225	2.5	135.5

FACULTY-POSTDOCTORAL RATIOS

- The physical sciences, with 42 percent of the postdoctorals and 20 percent of the full-time faculty, had the lowest faculty-to-postdoctoral ratio. The social sciences, with less than 3 percent of the postdoctorals but 17 percent of the faculty, had the highest ratio.

Full-time graduate faculty per postdoctoral in doctorate departments, by area of science, 1970

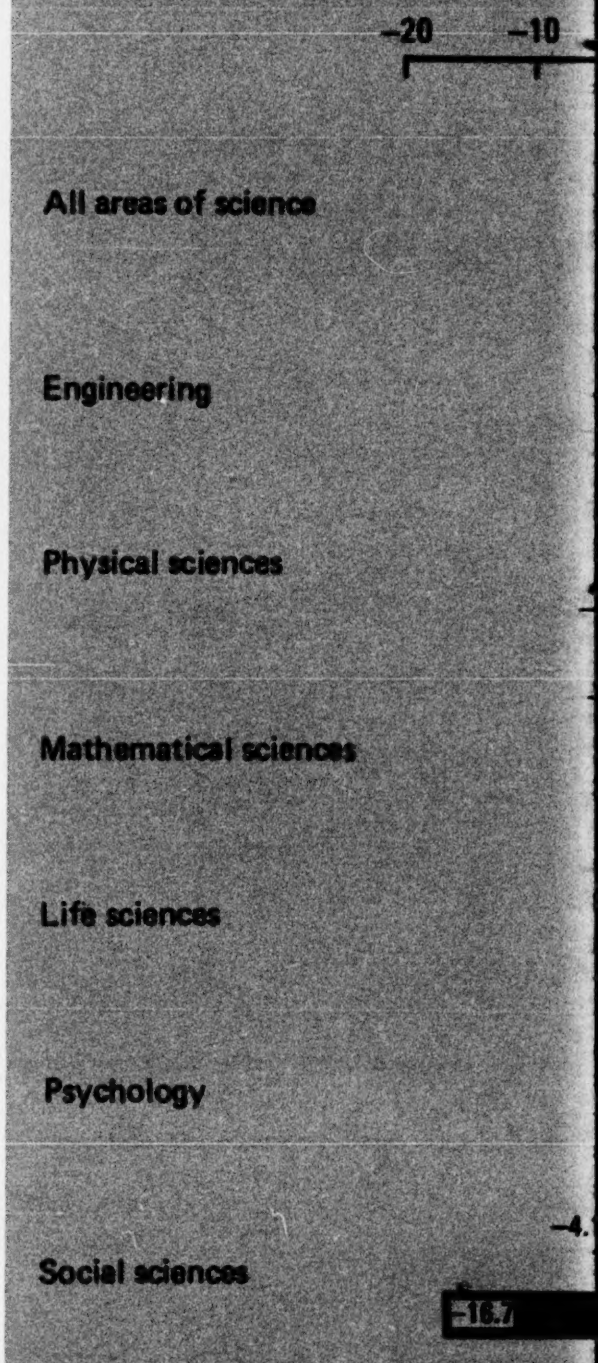


SOURCE: National Science Foundation (appendix table C-12).

TRENDS

- The number of postdoctorals increased only slightly between 1969 and 1970 — less than 1 percent — in those departments reporting in each of the years 1967-70.
- Three areas of science actually experienced decreases in numbers of postdoctorals between 1969 and 1970 — engineering, physical sciences, and social sciences.
- The sizable postdoctoral growth rates in the various areas of science between 1967 and 1969 may have been due in part to institutional policies designed to provide employment to doctorate recipients during a period of declining opportunities in scientific occupations throughout the economy. Of course, the reduced rate of increase from 1969 to 1970 may also reflect the declining availability of funds to finance the research work of postdoctoral appointees.

Change in the number of post departments, by area of scienc



Note: Based on 2,236 doctorate departments repor
SOURCE: National Science Foundation (appendix

(For more detailed data on this section, see appendix tables C-12, C-16, and C-17.)

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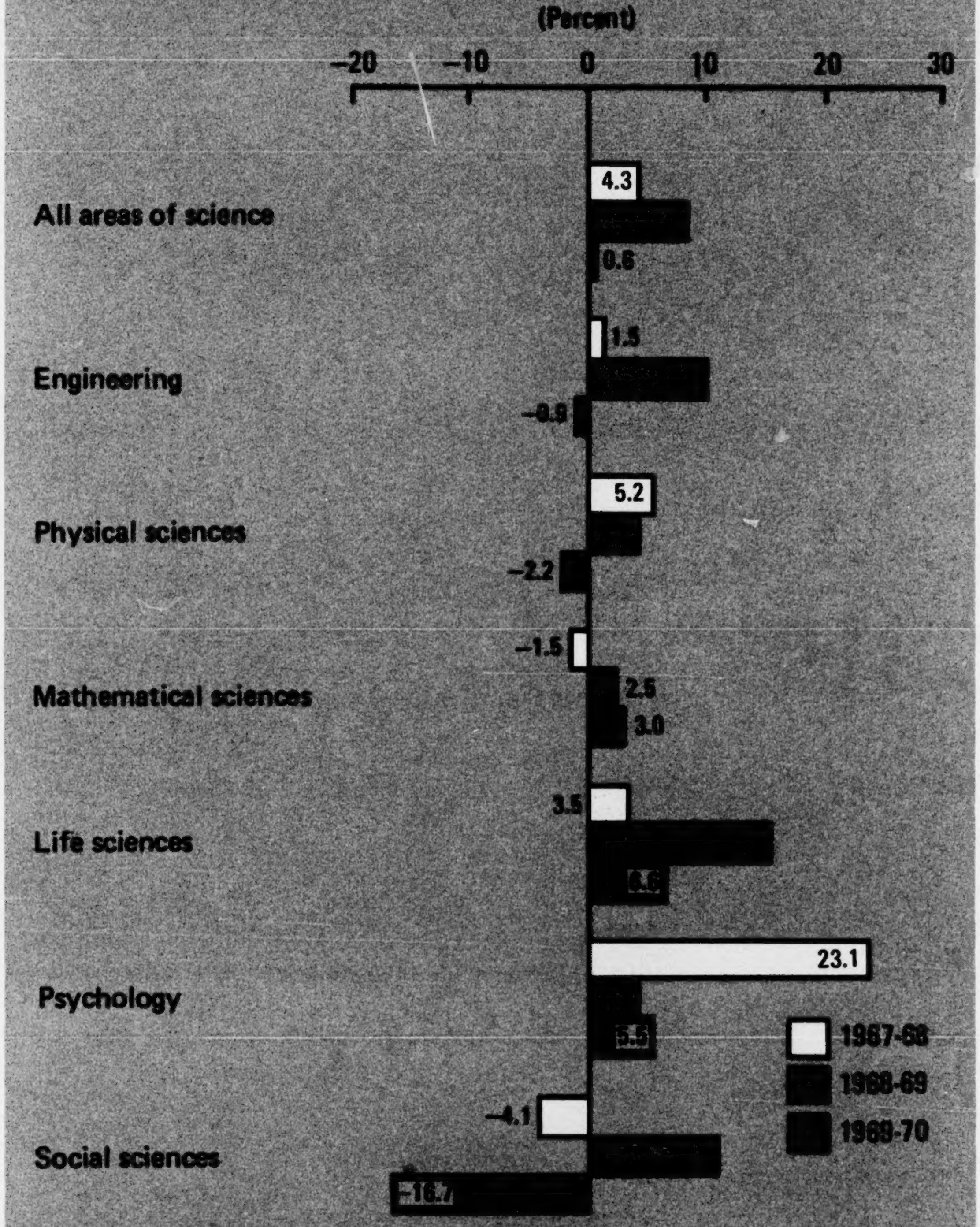
Change in the number of postdoctorals in doctorate departments, by area of science, 1967-70



Note: Based on 2,236 doctorate departments reporting in each of the 4 years.
SOURCE: National Science Foundation (appendix table C-17).

APPENDIXES

A. Technical Notes

B. Institutions Participating in the Graduate Traineeship Program, Fall 1970

C. Statistical Tables

D. Instructions and Consolidated Departmental Data Sheets

APPENDIX A
TECHNICAL NOTES

Table

A–1. Doctorates awarded in the sciences and engineering by the 224 institutions cov
study, compared with total science doctorates granted by all U.S. institutions
tion, by area of science, academic years ended June 30, 1967-69 ....
A–2. Graduate student enrollment (full- and part-time) in the sciences and engineering
institutions covered in the 1969 study, compared with estimated U.S. enrollm
degrees, by area of science and department degree level, 1969 ....
A–3. Number of science doctorate departments in the 227 doctorate institutions cover
by area and field of science, 1970 ....

The National Science Foundation has awarded traineeships to graduate science students through their institutions since 1964. The Graduate Traineeship Program was designed to further the scientific education of high-ability graduate students to help meet the Nation's need for well-trained scientific manpower. In applying for these traineeships, institutions have annually submitted a wealth of valuable information which has been summarized and published in three previous reports.[1] The first covered student support and manpower resources in graduate science education, fall 1965 and fall 1966; the second was limited to an analysis of support of full-time science graduate students, fall 1967; and the third covered the subject matter included in the first report in the series for fall 1969, except for emphasis on doctorate departments only.

The statistical information requested on Departmental Data Sheets has not varied since 1966, thereby providing trend data not available elsewhere on the types and sources of graduate student support, number of faculty, and number of postdoctoral appointees in scientific fields.

Departmental Summaries, which provided trend data on 2,894 doctorate departments in the previous report, were not available for this report; instead, data for 2,236 doctorate departments reporting in fall 1970 were machine-matched with data for the same departments reporting in each of the 3 previous years. Thus, trend data were limited to those identical departments that had reported consistently for 4 years and were not affected by the newly-formed departments in budding scientific fields. Exclusion of such departments from trend data provided an opportunity to examine what has happened over time to graduate science education in departments with basically similar characteristics. Results obtaine
centage points in some are
report.

Science departments
titles, which were classifie
three previous reports. Th
follows:

Engineering
- **Aeronautical**
- **Agricultural**
- **Chemical**
- **Civil**
- **Electrical**
- **Engineering science**
- **Industrial**
- **Mechanical**
- **Metallurgical and material**
- **Mining**
- **Nuclear**
- **Petroleum**
- **Other engineering**

Physical sciences
- **Astronomy**
- **Atmospheric sciences**
- **Chemistry**
- **Geosciences**
- **Oceanography**
- **Physics**

Mathematical sciences
- **Applied mathematics**
- **Mathematics**

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[1] National Science Foundation, **Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1965 and Fall 1966** (NSF 68-13), **Support of Full-time Graduate Students in the Sciences, Fall 1967** (NSF 69-34), and **Graduate Student Support and Manpower Resources in Graduate Science Education, Fall 1969** (NSF 70-40) (Washington, D.C. 20402: Supt. of Documents, U.S. Government Printing Office.)

Page
tes awarded in the sciences and engineering by the 224 institutions covered in the 1969
ıdy, compared with total science doctorates granted by all U.S. institutions of higher educa-
n, by area of science, academic years ended June 30, 1967-69 45
e student enrollment (full- and part-time) in the sciences and engineering in 224 doctorate
stitutions covered in the 1969 study, compared with estimated U.S. enrollment for advanced
grees, by area of science and department degree level, 1969 46
of science doctorate departments in the 227 doctorate institutions covered in this study,
area and field of science, 1970 47

awarded traineeships to graduate
nce 1964. The Graduate Trainee-
scientific education of high-ability
's need for well-trained scientific
s, institutions have annually sub-
h has been summarized and pub-
overed student support and man-
ion, fall 1965 and fall 1966; the
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mphasis on doctorate departments

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available for this report; instead,
rting in fall 1970 were machine-
reporting in each of the 3 previous
se identical departments that had
not affected by the newly-formed
clusion of such departments from
ine what has happened over time
ents with basically similar characteristics. Results obtained by using the latter method differed by a few percentage points in some areas of science from those published in the previous report.

Science departments applying for traineeships utilized a wide variety of titles, which were classified into the same 41 fields of sciences used in the three previous reports. These fields were grouped into 6 areas of science, as follows:

- Engineering
  - Aeronautical
  - Agricultural
  - Chemical
  - Civil
  - Electrical
  - Engineering science
  - Industrial
  - Mechanical
  - Metallurgical and materials
  - Mining
  - Nuclear
  - Petroleum
  - Other engineering

- Physical sciences
  - Astronomy
  - Atmospheric sciences
  - Chemistry
  - Geosciences
  - Oceanography
  - Physics

- Mathematical sciences
  - Applied mathematics
  - Mathematics
  - Statistics
- Life sciences
  - Agriculture
  - Biochemistry
  - Biology
  - Botany
  - Microbiology
  - Pharmacology
  - Physiology
  - Zoology
  - Other life sciences

- Psychology

- Social sciences
  - Agricultural economics
  - Anthropology
  - Economics (except agricultural)
  - Geography
  - History and philosophy of science
  - Linguistics
  - Political science
  - Sociology
  - Sociology and anthropology

dent Support and Manpower Resources
1966 (NSF 68-13), **Support of Full-time**
69-34), and **Graduate Student Support**
lucation, Fall 1969 (NSF 70-40) (Wash-
ernment Printing Office.)

The number of institutions applying for traineeships has increased 11 percent since 1966, and the number of doctorate departments 27 percent, as shown below:

Year	Number of institutions	Number of departments Total	Master's	Doctorate
1966	204	2,866	441	2,425
1967	209	3,016	436	2,580
1968	219	3,190	454	2,736
1969	224	3,354	460	2,894
1970	227	3,544	473	3,071

DEFINITIONS

Highest degree offered. The department was asked to state whether the master's or doctor's degree was the highest degree offered by the department at the time the statistics were supplied (October 1970). Institutions in which at least one department offered science doctorates were eligible for NSF traineeship grants. In such institutions, departments offering master's as their highest science degrees were also eligible. Statistics on which this report is based, however, relate only to science doctorate departments of eligible institutions that elected to apply for NSF Traineeships for 1971.

Degrees conferred. Degrees conferred during the previous 12-month period ending in June of the current year are reported. Degrees conferred jointly by two or more departments were recorded by one department only, at the discretion of the departments. The present report does not analyze the degree output of doctorate departments included in the study. However, statistics on this subject, by area of science, are summarized in the Consolidated Departmental Data Sheets (appendix D).

Enrollment status of graduate students. A full-time graduate student is a **bona fide** graduate student — not a regular staff member; e.g., not an instructor — who is engaged entirely in training activities in his field of science; these activities may embrace any appropriate combination of study, teaching, and research. Some institutions use the phrase, "geographical full-time student" to describe such students. All other graduate students are considered part time.

Level of study of graduate students. A first-year graduate student is one who, in the fall of the year of application, is entering graduate school for the first time, or has completed less than a normal year of graduate study. All graduate students who had completed a normal year of graduate study, or more, were classified as beyond-first-year graduate students.

Types and sources of major support. Information on graduate student support was requested for full-time students only. In cases of multiple support, the major source of support was requested. Major support is defined as a total stipend of $1,200 or more, exclusive of tuition and self-support during a particular academic year. A given student should be counted only once, and for

each department the sum of f
the sum of full-time graduate s
types of major support were i
ships and traineeships, teach
all other types of support. Se
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enable him to pursue postbac
educational award to a studer
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generally identical, according
tion's Student Support Study
Support, Part I, Fellowships ar
of analysis of major sources o
ernment; (2) institutional sup
"This" institution); (3) self-su
(4) all other sources.

Citizenship of graduate s
residents of a possession of th
others, including those who h
foreign.

Faculty. Faculty are staff
significantly involved in the gra
teaching one or more gradu
research of one or more gradu
leave who were expected to ret
faculty, including the departr
instructor or above, with a full
major responsibilities are in t
search professors, (and resear
in the full-time faculty count a
definition for full-time faculty b
Part-time faculty are those w
responsibilities or activities
affiliate or adjunct professors f
professors emeriti, experimen
staff, etc. Any one faculty men
ment.

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[2] See appendix D for the appli
used to complete the Departmenta

eeships has increased 11
epartments 27 percent, as

of departments Master's	Doctorate
441	2,425
436	2,580
454	2,736
460	2,894
473	3,071

sked to state whether the
fered by the department at
). Institutions in which at
e eligible for NSF trainee-
master's as their highest
this report is based, how-
f eligible institutions that

previous 12-month period
grees conferred jointly by
rtment only, at the discre-
analyze the degree output
owever, statistics on this
Consolidated Departmental

ime graduate student is a
ber; e.g., not an instructor
is field of science; these
of study, teaching, and
hical full-time student" to
re considered part time.
r graduate student is one
g graduate school for the
ar of graduate study. All
f graduate study, or more,
s.
on graduate student sup-
es of multiple support, the
port is defined as a total
self-support during a par-
ounted only once, and for

each department the sum of full-time graduate students enrolled should equal the sum of full-time graduate students listed by sources of major support. Four types of major support were indicated, without definitions, as follows: Fellowships and traineeships, teaching assistantships, research assistantships, and all other types of support. Separate data on number of graduate fellows and trainees, respectively, were not requested from institutions applying for NSF traineeships because of the problem of making meaningful distinctions between the two types of awards. The Federal Interagency Committee on Education (FICE) and the NSF in its fellowship and traineeship programs differentiate between the two categories of stipends as follows: (1) A fellowship is "an award made directly to or on behalf of a student selected in a national competition, to enable him to pursue postbaccalaureate training," and (2) a traineeship is "an educational award to a student selected by his university." Except for the student selection process, the terms and conditions of the two types of awards are generally identical, according to the Federal Interagency Committe on Education's Student Support Study Group, **Report on Federal Predoctoral Student Support, Part I, Fellowships and Traineeships,** April 1970, page 3. For purposes of analysis of major sources of support, four sources were used:[2] (1) U.S. Government; (2) institutional support (includes State and local governments and "This" institution); (3) self-support, including loans and family support; and (4) all other sources.

Citizenship of graduate students. Citizens of the United States or native residents of a possession of the United States are considered U.S. citizens. All others, including those who have applied for U.S. citizenship, are considered foreign.

Faculty. Faculty are staff of academic rank, instructor or above, who are significantly involved in the graduate academic program of the department; i.e., teaching one or more graduate courses or seminars and/or directing the research of one or more graduate students. This includes faculty on sabbatical leave who were expected to return. Visiting professors were excluded. Full-time faculty, including the departmental head, are those staff of academic rank, instructor or above, with a full-time appointment in that department and whose major responsibilities are in the academic programs of that department. Research professors, (and research associates with academic rank) were included in the full-time faculty count and also separately counted as those who met the definition for full-time faculty but did not teach any regularly scheduled courses. Part-time faculty are those who met the faculty definition but have major responsibilities or activities outside the department. This includes deans, affiliate or adjunct professors from other departments or outside the university, professors emeriti, experiment laboratory or extension service staff, museum staff, etc. Any one faculty member was counted as full-time in only one department.

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[2] See appendix D for the application forms used for NSF Traineeships and instructions used to complete the Departmental Data Sheet (NSF Form 345).

Postdoctorals and research associates. All individuals who devote essentially full-time effort to research activities within that department, whose appointment is nonpermanent, not of academic rank (instructor or above), and usually for a specific time period, are postdoctorals or research associates. Such individuals usually have an earned doctorate, or the equivalent in experience, and may contribute to the academic program through seminars, lectures, or working with graduate students, but their postdoctoral activities are considered to have an element of additional training for them.

STATISTICAL COVERAGE OF GRADUATE SCIENCE EDUCATION

Statistics on graduate enrollment, faculty, and postdoctorals in the sciences and engineering upon which this report is based, represent nearly the complete universe for doctorate-granting departments. The graduate educational characteristics of master's departments were not included here for two principal reasons: (1) They constitute only a small fraction of the educational activities of doctorate-granting institutions, and (2) the data for these master's departments could not be considered representative of similar departments of the approximately 200 institutions granting master's degrees in the sciences and engineering that were not covered in this study, since they were not eligible for NSF traineeship grants.

The 2,894 doctorate departments of the 224 institutions in the 1969 report awarded well over 90 percent of the doctorate degrees awarded by all U.S. institutions of higher education in each of the 3 academic years ended June 30, 1967-69 (appendix table A-1).[3]

Enrollment statistics provide another measure of the coverage of graduate science education characterizing the present study. The 224 doctorate institutions in the 1969 study enrolled 196,341 graduate students, or 81 percent of total U.S. enrollment for advanced degrees in all institutions in 1969.[4] Doctorate departments of these institutions accounted for 76 percent of the U.S. total, and their master's departments accounted for an additional 5 percent (appendix table A-2).[5] Among areas of science, coverage of graduate enrollment in doctorate departments ranged from a high of 88 percent in the social sciences to a low of 53 percent in the mathematical sciences. The relatively low enrollment coverage of NSF traineeship statistics in some areas, particularly mathematical sciences, is due principally to the fact that these areas have a relatively large graduate enrollment in institutions that are not eligible for NSF traineeships because they do not offer science doctorates. Also important is the fact that some eligible departments do not apply for NSF traineeships and are therefore not included. Finally s
enrollment data may be due t
information to the U.S. Office of
tion, respectively, as well as diff
the two agencies.

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[3] Similar data for 1970 were not available from OE at the time of publication of this report.

[4] Similar data for 1970 were not available from OE in time for publication of this report.

[5] As noted elsewhere, statistics on the characteristics of master's departments of the doctorate institutions are not presented in this report.

**Table A-1. — Doctorates a
the 224 institutions cover
science doctorates granted
by area of science, ac**

Area of science and academic year
Total:
1967
1968
1969
Engineering:
1967
1968
1969
Physical sciences:
1967
1968
1969
Mathematical sciences:
1967
1968
1969
Life sciences:
1967
1968
1969
Psychology:
1967
1968
1969
Social sciences:
1967
1968
1969

a Based on U.S. Office of Educatio
higher education. Data for 1970 were no

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in experience, and
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graduate educa-
luded here for two
of the educational
for these master's
lar departments of
es in the sciences
ey were not eligible

tions in the 1969
ees awarded by all
demic years ended

verage of graduate
4 doctorate institu-
s, or 81 percent of
ons in 1969.[4] Doc-
percent of the U.S.
dditional 5 percent
of graduate enroll-
ercent in the social
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areas, particularly
these areas have a
not eligible for NSF
lso important is the
aineeships and are

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therefore not included. Finally some variations in the foregoing comparisons of enrollment data may be due to differences in institutional reporting of such information to the U.S. Office of Education and to the National Science Foundation, respectively, as well as differences in definitions of scientific fields used by the two agencies.

Table A-1. — Doctorates awarded in the sciences and engineering by the 224 institutions covered in the 1969 study, compared with total science doctorates granted by all U.S. institutions of higher education, by area of science, academic years ended June 30, 1967-69

Area of science and academic year	U.S. total, all institutions[a]	Institutions covered in 1969 study	
		Doctorates awarded	Percent of total
Total:			
1967	12,981	12,121	93.4
1968	14,420	13,364	92.7
1969	15,982	14,998	93.8
Engineering:			
1967	2,581	2,731	105.8
1968	2,833	3,003	106.0
1969	3,234	3,514	108.7
Physical sciences:			
1967	3,478	3,327	95.7
1968	3,642	3,495	96.0
1969	3,901	3,704	95.0
Mathematical sciences:			
1967	828	808	97.6
1968	970	949	97.8
1969	1,063	1,071	100.8
Life sciences:			
1967	3,116	2,442	78.4
1968	3,681	2,802	76.1
1969	4,116	3,154	76.6
Psychology:			
1967	1,293	1,058	81.8
1968	1,452	1,186	81.7
1969	1,728	1,398	80.9
Social sciences:			
1967	1,685	1,755	104.2
1968	1,842	1,929	104.7
1969	1,940	2,157	111.2

[a] Based on U.S. Office of Education statistics on earned degrees granted by U.S. institutions of higher education. Data for 1970 were not available at the time of this report.

Table A-2. — Graduate student enrollment (full- and part-time) in the sciences and engineering in 224 doctorate institutions covered in the 1969 study, compared with estimated U.S. enrollment for advanced degrees, by area of science and department degree level, 1969

Area of science	Estimated U.S. total enrollments for advanced degrees, fall 1969[a]	Graduate students enrolled in 224 doctorate institutions covered in 1969 study					
		All departments		Doctorate departments		Master's departments	
		Number	Percent of total	Number	Percent of total	Number	Percent of total
Total	243,715	196,341	80.6	184,845	75.8	11,496	4.7
Engineering	65,048	55,537	85.4	52,567	80.8	2,970	4.6
Physical sciences	39,885	35,642	89.4	34,696	87.0	946	2.4
Mathematical sciences	29,175	17,383	59.6	15,417	52.8	1,966	6.7
Life sciences	44,203	32,129	72.7	30,810	69.7	1,319	3.0
Psychology	22,726	14,487	63.7	13,763	60.6	724	3.2
Social sciences	42,678	41,163	96.5	37,592	88.1	3,571	8.4

[a] Based on preliminary data of the U.S. Office of Education, fall 1969. Data for 1970 were not avaiable at time of this report.

Table A-3. — Number of science doctorate departments in the 227 doctorate institutions covered in the study, by area and field of science, 1970

Field of science and departmental title	Doctorate departments
Total	3,071
Engineering	676
Aeronautical, total	33
Aeronautical and astronautical engineering	3
Aeronautical engineering	1
Aeronautics	1
Aeronautics and astronautics	6
Aerospace engineering	18
Aerospace engineering and engineering physics	1
Astronautics	1
Space science	2
Agricultural, total	24
Agricultural and irrigation engineering	1
Agricultural engineering	21
Wood technology	1
Wood products engineering	1
Chemical, total	91
Chemical engineering	83
Chemical engineering and materials science	2
Chemical and metallurgical engineering	4
Chemical and nuclear engineering	2
Civil, total	87
Civil engineering	71
Civil engineering hydraulics	1
Civil engineering and engineering mechanics	3
Civil and environmental engineering	4
Civil and geological engineering	2
Environmental engineering	4
Environmental sciences and engineering	2
Electrical, total	108
Electrical and instrumental	1
Electrical computer science	2
Electrical engineering	105

Table A-3 (continued)

Field of science and departmental
Engineering science, total
Applied mechanics
Applied science
Engineering acoustics
Engineering mechanics
Engineering science
Engineering and applied physics
Mechanical science
Mechanics
Mechanics and hydraulics
Theoretical and applied mechanics
Industrial, total
Administrative science
Applied analysis
Industrial communication engineering
Industrial engineering
Industrial engineering and management
Industrial engineering and operations r
Industrial management
Management
Management engineering
Management science
Operations research
Organization behavior
Systems engineering
Mechanical, total
Aerospace and mechanical engineering
Marine engineering and naval architectu
Mechanical engineering
Mechanical engineering and applied me
Mechanical and aeronautical engineerin
Mechanical and industrial engineering
Naval architecture
Transportation
Metallurgical, total
Ceramic engineering
Ceramics

nts in the 227
d of science, 1970

	Doctorate departments
	3,071
	676
	33
	3
	1
	1
	6
	18
	1
	1
	2
	24
	1
	21
	1
	1
	91
	83
	2
	4
	2
	87
	71
	1
	3
	4
	2
	4
	2
	108
	1
	2
	105

Table A-3 (continued)

Field of science and departmental title	Doctorate departments
Engineering science, total	43
Applied mechanics	5
Applied science	1
Engineering acoustics	1
Engineering mechanics	16
Engineering science	9
Engineering and applied physics	1
Mechanical science	1
Mechanics	5
Mechanics and hydraulics	1
Theoretical and applied mechanics	3
Industrial, total	54
Administrative science	1
Applied analysis	1
Industrial communication engineering	1
Industrial engineering	23
Industrial engineering and management science	3
Industrial engineering and operations research	6
Industrial management	1
Management	1
Management engineering	1
Management science	2
Operations research	6
Organization behavior	1
Systems engineering	7
Mechanical, total	103
Aerospace and mechanical engineering	19
Marine engineering and naval architecture	1
Mechanical engineering	75
Mechanical engineering and applied mechanics	1
Mechanical and aeronautical engineering and material science	3
Mechanical and industrial engineering	1
Naval architecture	2
Transportation	1
Metallurgical, total	51
Ceramic engineering	4
Ceramics	2

Table A-3 (continued)

Field of science and departmental title	Doctorate departments
Metallurgical, Continued	
Material science	7
Materials engineering	11
Metallurgical engineering	7
Metallurgical and materials engineering	12
Metallurgy	7
Solid state science and technology	1
Mining, total	11
Geological engineering	1
Mineral engineering	1
Mineral preparation	1
Mining	2
Mining engineering	3
Mining and geological engineering	1
Mining and metallurgy	2
Nuclear, total	28
Nuclear engineering	24
Nuclear science and engineering	4
Petroleum, total	8
Petroleum engineering	4
Petroleum and chemical engineering	4
Other engineering, total	35
Applied physics	3
Bioengineering	3
Biomedical engineering	10
Economics of engineering	1
Energy engineering	2
Engineering	12
Engineering mathematics	1
Engineering physics and physics	1
Polymer science and engineering	1
Thermal engineering	1
Physical sciences	523
Astronomy, total	23

Table A-3 (continued)

Field of scie
Atmospheric sciences,
Aeronautics and
Astrogeophysics
Astrophysics
Atmospheric scie
Atmospheric and
Meteorology
Meteorology and
Chemistry, total
Chemistry
Crystallography
Paper technology
Polymer science
Geosciences, total
Earth and planet
Earth sciences
Environmental s
Geodetic science
Geochemistry
Geological scien
Geology
Geology and geo
Geology and ge
Geology and geo
Geophysical engi
Geophysics
Geophysics and
Geosciences
Hydrology
Mineralogy
Paleontology
Oceanography, total
Marine biology
Marine science
Ocean engineeri
Oceanography
Water chemistry

ntal title	Doctorate departments
	7
	11
	7
ring	12
	7
	1
	11
	1
	1
	1
	2
	3
	1
	2
	28
	24
	4
	8
	4
g	4
	35
	3
	3
	10
	1
	2
	12
	1
	1
	1
	1
	523
	23

Table A-3 (continued)

Field of science and departmental title	Doctorate departments
Atmospheric sciences, total	20
Aeronautics and planet atmospheres	1
Astrogeophysics	1
Astrophysics	1
Atmospheric sciences	6
Atmospheric and space sciences	2
Meteorology	7
Meteorology and oceanography	2
Chemistry, total	184
Chemistry	180
Crystallography	1
Paper technology	1
Polymer science	2
Geosciences, total	106
Earth and planetary science	4
Earth sciences	5
Environmental sciences	2
Geodetic science	1
Geochemistry	1
Geological science	14
Geology	50
Geology and geography	3
Geology and geological engineering	4
Geology and geophysics	7
Geophysical engineering	1
Geophysics	5
Geophysics and planetary physics	1
Geosciences	5
Hydrology	1
Mineralogy	1
Paleontology	1
Oceanography, total	21
Marine biology	1
Marine science	5
Ocean engineering	3
Oceanography	11
Water chemistry	1

Table A-3 (continued)

Field of science and departmental title	Doctorate departments
Physics, total	169
Astronomy and space science	1
Chemical physics	4
Electrophysics	2
Mathematical physics	1
Molecular physics	1
Optical science	1
Optics	1
Physics	140
Physics and astronomy	16
Physics and astrophysics	1
Plasma physics	1
Mathematical sciences	212
Applied mathematics, total	33
Applied mathematics	6
Applied mathematics and computer science	2
Computer science	25
Mathematics, total	140
Mathematical science	1
Mathematics	133
Mathematics and astronomy	1
Mathematics and statistics	5
Statistics, total	39
Applied statistics	1
Biostatistics	1
Mathematical biology	2
Mathematical statistics	1
Statistics	32
Statistics and computer science	2
Life sciences	965
Agricultural, total	214
Agricultural chemistry	4
Agronomy	19
Agronomy and genetics	1
Animal husbandry	3
Animal industry	1
Animal nutrition	1
Animal science	24

Table A-3 (continued)

Field of science and depar
Conservation
Crop and soil science
Dairy science
Entomology
Entomology and parasitology
Farm crops
Floriculture
Food science
Food science and technology
Food technology
Food and nutrition
Forest chemistry
Forest economics
Forest entomology
Forest management
Forest resources
Forestry
Forestry and horticulture
Horticulture
Nutrition
Parasitology
Plant breeding
Plant science
Plant and soil science
Poultry science
Range management
Range science
Resource development
Silviculture
Soil science
Soil and water science
Soils
Soils and meteorology
Vegetable crops
Water resources administratio
Watershed management
Wildlife
Wildlife management
Biochemistry, total
Agricultural biochemistry
Agricultural biochemistry and
Biochemistry
Biochemistry and biophysics
Biochemistry and nutrition
Biological chemistry

	Doctorate departments
	169
	1
	4
	2
	1
	1
	1
	1
	140
	16
	1
	1
	212
	33
	6
	2
	25
	140
	1
	133
	1
	5
	39
	1
	1
	2
	1
	32
	2
	965
	214
	4
	19
	1
	3
	1
	1
	24

Table A-3 (continued)

Field of science and departmental title	Doctorate departments
Conservation	1
Crop and soil science	1
Dairy science	2
Entomology	26
Entomology and parasitology	2
Farm crops	1
Floriculture	1
Food science	9
Food science and technology	7
Food technology	1
Food and nutrition	8
Forest chemistry	1
Forest economics	1
Forest entomology	1
Forest management	2
Forest resources	6
Forestry	15
Forestry and horticulture	1
Horticulture	14
Nutrition	8
Parasitology	2
Plant breeding	2
Plant science	9
Plant and soil science	5
Poultry science	9
Range management	1
Range science	3
Resource development	1
Silviculture	1
Soil science	5
Soil and water science	1
Soils	3
Soils and meteorology	1
Vegetable crops	2
Water resources administration	1
Watershed management	3
Wildlife	3
Wildlife management	1
Biochemistry, total	125
Agricultural biochemistry	2
Agricultural biochemistry and nutrition	1
Biochemistry	78
Biochemistry and biophysics	5
Biochemistry and nutrition	3
Biological chemistry	7

Table A-3 (continued)

Field of science and departmental title	Doctorate departments
Biochemistry, Continued	
Biophysical science	1
Biophysics	15
Biophysics and microbiology	2
Comparative biochemistry	1
Medical biochemistry	1
Medical physics	1
Molecular biophysics	1
Molecular biophysics and biochemistry	1
Radiation biology	3
Radiation biology and biophysics	1
Radiation biophysics	1
Radiology science	1
Biology, total	123
Biological science	22
Biological structure	2
Biology	78
Biomedical science	3
Cellular biology	5
Developmental biology	1
Evolutionary biology	1
Molecular basis of biological phenomena	1
Molecular biology	8
Organismic biology	1
Population and environmental biology	1
Botany, total	77
Botanical science	1
Botany	39
Botany and microbiology	7
Botany and plant pathology	7
Plant pathology	19
Plant physiology	4
Microbiology, total	91
Bacteriology	7
Cell physiology	1
Medical microbiology	7
Microbiology	75
Virology	1

Table A-3 (continued)

Field of scienc
Pharmacology, total
Biochemical pharma
Biopharmaceutical
Chemistry and phar
Medicinal chemistry
Pharmaceutical che
Pharmaceutics
Pharmacognosy
Pharmacology
Pharmacology and
Pharmacy
Physiology, total
Animal physiology
Medical physiology
Physiological chemi
Physiological optics
Physiology
Physiology and anat
Physiology and biop
Physiology and phar
Zoology, total
Fish and wildlife
Fisheries
Forest zoology
Zoology
Zoology and entomo
Zoology and physio
Other life sciences, total
Administration med
Anatomy
Animal genetics
Audiology
Bacteriology and pu
Biometrics
Ecology
Endocrinology
Environmental healt
General science

	Doctorate departments
	1
	15
	2
	1
	1
	1
	1
	1
	3
	1
	1
	1
	123
	22
	2
	78
	3
	5
	1
	1
	1
	8
	1
	1
	77
	1
	39
	7
	7
	19
	4
	91
	7
	1
	7
	75
	1

Table A-3 (continued)

Field of science and departmental title	Doctorate departments
Pharmacology, total	84
Biochemical pharmacology	1
Biopharmaceutical sciences	1
Chemistry and pharmaceutical chemistry	1
Medicinal chemistry	3
Pharmaceutical chemistry	7
Pharmaceutics	3
Pharmacognosy	2
Pharmacology	47
Pharmacology and toxicology	3
Pharmacy	16
Physiology, total	70
Animal physiology	1
Medical physiology	1
Physiological chemistry	1
Physiological optics	2
Physiology	45
Physiology and anatomy	2
Physiology and biophysics	12
Physiology and pharmacology	6
Zoology, total	57
Fish and wildlife	3
Fisheries	2
Forest zoology	1
Zoology	45
Zoology and entomology	4
Zoology and physiology	2
Other life sciences, total	124
Administration medicine	1
Anatomy	40
Animal genetics	1
Audiology	3
Bacteriology and public health	1
Biometrics	3
Ecology	8
Endocrinology	1
Environmental health	1
General science	2

Table A-3 (continued)

Field of science and departmental title	Doctorate departments
Genetics	21
Health and physical education	2
Immunology	2
Internal medicine	1
Life sciences	3
Medical sciences	2
Medicine	1
Natural resources	2
Neurobiology	3
Neurosciences	1
Pathology	14
Planetary and space science	1
Preventive medicine and public health	1
Psychobiology	1
Public health	1
Science	1
Science education	2
Toxicology	1
Tropical medicine	1
Veterinary medicine	1
Veterinary science	1
Psychology	152
Psychology, total	152
Animal behavior	1
Behavioral science	2
Child development	1
Educational psychology	1
Experimental social psychology	1
Human development	3
Psychiatry and neurology	1
Psychology	140
Psychology and education	1
Social psychology	1
Social sciences	543
Agricultural economics, total	16
Agricultural economics	12
Agricultural economics and economics	1
Agricultural economics and sociology	3
Anthropology, total	61

Table A-3 (continued)

Field of science and depa
Economics, total
Economics
Economics and business admi
Industrial relations
Mineral economics
Political economy
Geography, total
Geography
Geography and anthropology
History and philosophy of science,
History
History and philosophy of sci
History of science
History of science and medic
Logic and methodology of sci
Philosophy
Philosophy of science
Linguistics, total
Communication
Communications
Information science
Interpersonal communication
Journalism
Linguistics
Mass communications
Psycholinguistics
Sensory communication
Speech
Speech and pathology
Political science, total
Government
Government and foreign affairs
International relations
International studies
Political science
Politics
Public administration
Public affairs

Doctorate departments
21
2
2
1
3
2
1
2
3
1
14
1
1
1
1
1
2
1
1
1
1
152
152
1
2
1
1
1
3
1
140
1
1
543
16
12
1
3
61

Table A-3 (continued)

Field of science and departmental title	Doctorate departments
Economics, total	108
Economics	101
Economics and business administration	2
Industrial relations	2
Mineral economics	1
Political economy	2
Geography, total	43
Geography	42
Geography and anthropology	1
History and philosophy of science, total	42
History	1
History and philosophy of science	6
History of science	10
History of science and medicine	1
Logic and methodology of science	2
Philosophy	16
Philosophy of science	6
Linguistics, total	64
Communication	4
Communications	3
Information science	5
Interpersonal communication	1
Journalism	1
Linguistics	37
Mass communications	1
Psycholinguistics	2
Sensory communication	1
Speech	6
Speech and pathology	3
Political science, total	98
Government	11
Government and foreign affairs	1
International relations	1
International studies	3
Political science	75
Politics	4
Public administration	1
Public affairs	2

Table A-3 (continued)

Field of science and departmental title	Doctorate departments
Sociology, total	97
City planning	1
Criminology	2
Demography	1
Family life	1
Folklore	1
International service	1
Labor and industrial relations	1
Leadership and human behavior	1
Regional plan	1
Regional science	1
Rural sociology	3
Social relations	2
Social sciences	2
Sociology	75
Urban planning	4
Sociology and anthropology, total	14

APPENDIX B

INSTITUTIONS PARTICIPATING IN GRADUATE TRAINEESHIP PROGRAM, FALL 1970[1]

ALABAMA

Auburn University
University of Alabama, Birmingham
University of Alabama, University

ALASKA

University of Alaska

ARIZONA

Arizona State University
University of Arizona

ARKANSAS

University of Arkansas, Fayetteville

CALIFORNIA

California Institute of Technology
Claremont Graduate School and University Center
Loma Linda University
Stanford University
University of California, Berkeley
University of California, Davis
University of California, Irvine
University of California, Los Angeles
University of California, Riverside
University of California, San Diego
University of California, San Francisco
University of California, Santa Barbara
University of California, Santa Cruz
University of the Pacific
University of Santa Clara
University of Southern California
U.S. International University

COLORADO

Colorado School of Mines
Colorado State University
University of Colorado
University of Denver

CONNECTICUT

University of Connecticut
Wesleyan University
Yale University

DELAWARE

University of Delaware

DISTRICT OF COLUMBIA

American University
Catholic University
George Washington University
Georgetown University
Howard University

FLORIDA

Florida State University
Nova University
University of Florida
University of Miami
University of South Florida

GEORGIA

Atlanta University
Emory University
Georgia Institute of Technology
Georgia State College
Medical College of Georgia
University of Georgia

HAWAII

University of Hawaii

IDAHO

Idaho State University
University of Idaho

ILLINOIS

DePaul University
Illinois Institute of Technology
Illinois State University
Loyola University
Northern Illinois University
Northwestern University
Southern Illinois University
University of Chicago
University of Illinois, Urbana
University of Illinois Medical Center
University of Illinois, Chicago Circle

INDIANA

Indiana University
Purdue University
University of Notre Dame

IOWA

Iowa State University
University of Iowa

KANSAS

Kansas State University
University of Kansas

KENTUCKY

University of Kentucky
University of Louisville

LOUISIANA

Louisiana Polytechnic Institute
Louisiana State University, Baton Rouge
Louisiana State University, New Orleans
Louisiana State University Medical Cente New Orleans
Loyola University
Tulane University

MAINE

University of Maine

MARYLAND

Johns Hopkins University
University of Maryland

MASSACHUSETTS

Boston College
Boston University
Brandeis University
Clark University
Harvard University
Lowell Technological Institute
Massachusetts Institute of Technology
Northeastern University
Tufts University
University of Massachusetts
Worcester Polytechnic Institute

MICHIGAN

Michigan State University, East Lansing
Michigan Technological University
University of Detroit
University of Michigan
Wayne State University
Western Michigan University

MINNESOTA

University of Minnesota, Minneapolis

MISSISSIPPI

Mississippi State University
University of Mississippi
University of Southern Mississippi

MISSOURI

St. Louis University

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[1] The 227 science doctorate institutions listed here may differ from similar listings published elsewhere for the following principal reasons: (1) Differences in classifying branches, affiliates, or other organizational components of University systems; (2) variations in definitions of science and engineering fields; (3) differences in the time-period covered by the classification (e.g., single year or longer period); and (4) differences in classifications based on level of degree offered or level of degree granted, respectively, in a particular period.

RADUATE

DELAWARE
elaware
ICT OF COLUMBIA
ersity
rsity
gton University
niversity
sity
FLORIDA
niversity
y
lorida
iami
outh Florida
GEORGIA
sity
ity
te of Technology
College
e of Georgia
eorgia
HAWAII
awaii
IDAHO
niversity
daho
ILLINOIS
sity
e of Technology
niversity
ity
is University
University
is University
hicago
linois, Urbana
linois Medical Center
linois, Chicago Circle

n similar listings published else-
ing branches, affiliates, or other
initions of science and engineer-
ation (e.g., single year or longer
ffered or level of degree granted,

INDIANA
Indiana University
Purdue University
University of Notre Dame

IOWA
Iowa State University
University of Iowa

KANSAS
Kansas State University
University of Kansas

KENTUCKY
University of Kentucky
University of Louisville

LOUISIANA
Louisiana Polytechnic Institute
Louisiana State University, Baton Rouge
Louisiana State University, New Orleans
Louisiana State University Medical Center, New Orleans
Loyola University
Tulane University

MAINE
University of Maine

MARYLAND
Johns Hopkins University
University of Maryland

MASSACHUSETTS
Boston College
Boston University
Brandeis University
Clark University
Harvard University
Lowell Technological Institute
Massachusetts Institute of Technology
Northeastern University
Tufts University
University of Massachusetts
Worcester Polytechnic Institute

MICHIGAN
Michigan State University, East Lansing
Michigan Technological University
University of Detroit
University of Michigan
Wayne State University
Western Michigan University

MINNESOTA
University of Minnesota, Minneapolis

MISSISSIPPI
Mississippi State University
University of Mississippi
University of Southern Mississippi

MISSOURI
St. Louis University
University of Missouri, Columbia
University of Missouri, Kansas City
University of Missouri, Rolla
Washington University

MONTANA
Montana State University
University of Montana

NEBRASKA
University of Nebraska

NEVADA
University of Nevada

NEW HAMPSHIRE
Dartmouth College
University of New Hampshire

NEW JERSEY
Newark College of Engineering
Princeton University
Rutgers, The State University
Seton Hall University
Stevens Institute of Technology

NEW MEXICO
New Mexico Institute of Mining and Technology
New Mexico State University
University of New Mexico

NEW YORK
Adelphi University
Alfred University
City University of New York
Clarkson College of Technology
Columbia University
Cooper Union
Cornell University
Fordham University
Hofstra University
New School of Social Research
New York Medical College
New York University
Polytechnic Institute of Brooklyn
Rensselaer Polytechnic Institute
Rockefeller University
St. Bonaventure University
St. Johns University
State University of New York at Albany
State University of New York at Binghamton
State University of New York at Buffalo
State University of New York, College of Forestry at Syracuse
State University of New York, Downstate Medical Center
State University of New York, Stony Brook

NEW YORK Cont.

State University of New York, Upstate Medical Center
Syracuse University
Union College and University
University of Rochester
Yeshiva University

NORTH CAROLINA

Duke University
University of North Carolina, Chapel Hill
University of North Carolina—North Carolina State University, Raleigh
Wake Forest University

NORTH DAKOTA

North Dakota State University
University of North Dakota

OHIO

Bowling Green State University
Case-Western Reserve University
Kent State University
Miami University
Ohio State University
Ohio University
University of Akron
University of Cincinnati
University of Dayton
University of Toledo

OKLAHOMA

Oklahoma State University
University of Oklahoma

OREGON

Oregon Graduate Center
Oregon State University
Portland State University
University of Oregon
University of Portland

PENNSYLVANIA

Bryn Mawr College
Carnegie-Mellon University
Drexel Institute of Technology
Duquesne University
Hahnemann Medical College and Hospital
Lehigh University
The Medical College of Pennsylvania
Pennsylvania State University
Philadelphia College of Pharmacy and Science
Temple University
Thomas Jefferson University
University of Pennsylvania
University of Pittsburgh
Villanova University

RHODE ISLAND

Brown University
Providence College
University of Rhode Island

SOUTH CAROLINA

Clemson University
Medical University of South Carolina
University of South Carolina

SOUTH DAKOTA

South Dakota School of Mines and Technology
South Dakota State University
University of South Dakota

TENNESSEE

University of Virginia
Virginia Commonwealth University
Virginia Polytechnic Institute

TEXAS

Baylor University, Waco
Baylor College of Medicine, Houston
North Texas State University
Rice University
Southern Methodist University
Texas A & M University
Texas Christian University
Texas Tech University
Texas Woman's University
University of Houston
University of Texas, Arlington
University of Texas, Austin

UTAH

Brigham Young University
University of Utah
Utah State University, Logan

VERMONT

University of Vermont

VIRGINIA

College of William and Mary

WASHINGTON

University of Washington
Washington State University

WEST VIRGINIA

West Virginia University

WISCONSIN

Institute of Paper Chemistry (Lawrence University)
Marquette University
University of Wisconsin, Madison
University of Wisconsin, Milwaukee

WYOMING

University of Wyoming
George Peabody College
Memphis State University
University of Tennessee, Knoxville
University of Tennessee, Memphis
Vanderbilt University

APPENDIX C

STATISTICAL TABLES

Table Page

C–1 Graduate students in doctorate departments, by field of science and enrollment status, 1970 56

C–2 Graduate students in doctorate departments, by field of science and citizenship, 1970 57

C–3 Graduate students in doctorate departments, by field of science, enrollment status, and citizenship, 1970 58

C–4 Graduate students in doctorate departments, by field of science and level of study, 1970 59

C–5 Graduate students in doctorate departments, by field of science, enrollment status, and level of study, 1970 60

C–6 Full-time graduate students in doctorate departments, by field of science and type of major support, 1970 61

C–7 Full-time graduate students in doctorate departments, by area of science, level of study, and type of major support, 1970 62

C–8 Full-time graduate students in doctorate departments, by source of major support and area of science, 1970 63

C–9 Full-time graduate students in doctorate departments, by source and type of major support, 1970 64

C–10 Full-time graduate students in doctorate departments supported by U.S. Government sources, by field of science and Federal agency, 1970 65

C–11 Full-time graduate students in doctorate departments supported by other U.S. sources, by field of science, 1970 68

C–12 Full-time faculty and postdoctorals in doctorate departments, by field of science, 1970 71

C–13 Graduate students in doctorate departments reporting consistently for four years, by area of science, citizenship, and enrollment status, 1967-70 72

C–14A Full-time graduate students in science doctorate departments reporting consistently for four years, by source and type of major support and citizenship, 1967-70 73

C–14B Full-time graduate students in engineering doctorate departments reporting consistently for four years, by source and type of major support and citizenship, 1967-70 75

Table

C–14C Full-time graduate stu reporting consistently f and citizenship, 1967-

C–14D Full-time graduate stu ments reporting consis support and citizenship

C–14E Full-time graduate stuc ing consistently for fo citizenship, 1967-70

C–14F Full-time graduate stuc consistently for four citizenship, 1967-70

C–14G Full-time graduate stuc ing consistently for fo citizenship, 1967-70 ..

C–15A Full-time graduate stu consistently for four ye support, 1967-70 ....

C–15B Full-time graduate stuc consistently for four ye support, 1967-70 ....

C–15C Full-time graduate stu reporting consistently type of major support,

C–15D Full-time graduate st ments reporting consis and type of major sup

C–15E Full-time graduate stu ing consistently for fo major support, 1967-7

C–15F Full-time graduate stuc consistently for four ye support, 1967-70 ....

C–15G Full-time graduate stuc ing consistently for fo major support, 1967-7

C–16 Full-time faculty in do years, by area of scie

C–17 Postdoctorals in doct years, by area of scien

Page

d of science and enroll- 56

field of science and 57

ield of science, enroll- 58

ld of science and level 59

ield of science, enroll- 60

nts, by field of science 61

nts, by area of science, ... 62

nts, by source of major 63

nts, by source and type 64

ents supported by U.S.
l agency, 1970 65

nts supported by other 68

epartments, by field of 71

ing consistently for four
ent status, 1967-70 72

departments reporting
of major support and 73

e departments reporting
of major support and 75

Table		Page
C–14C	Full-time graduate students in physical science doctorate departments reporting consistently for four years, by source and type of major support and citizenship, 1967-70	77
C–14D	Full-time graduate students in mathematical science doctorate departments reporting consistently for four years, by source and type of major support and citizenship, 1967-70	79
C–14E	Full-time graduate students in life science doctorate departments reporting consistently for four years, by source and type of major support and citizenship, 1967-70	81
C–14F	Full-time graduate students in psychology doctorate departments reporting consistently for four years, by source and type of major support and citizenship, 1967-70	83
C–14G	Full-time graduate students in social science doctorate departments reporting consistently for four years, by source and type of major support and citizenship, 1967-70	85
C–15A	Full-time graduate students in science doctorate departments reporting consistently for four years, by level of study, citizenship, and type of major support, 1967-70	87
C–15B	Full-time graduate students in engineering doctorate departments reporting consistently for four years, by level of study, citizenship, and type of major support, 1967-70	88
C–15C	Full-time graduate students in physical science doctorate departments reporting consistently for four years, by level of study, citizenship, and type of major support, 1967-70	89
C–15D	Full-time graduate students in mathematical science doctorate departments reporting consistently for four years, by level of study, citizenship, and type of major support, 1967-70	90
C–15E	Full-time graduate students in life science doctorate departments reporting consistently for four years, by level of study, citizenship, and type of major support, 1967-70	91
C–15F	Full-time graduate students in psychology doctorate departments reporting consistently for four years, by level of study, citizenship, and type of major support, 1967-70	92
C–15G	Full-time graduate students in social science doctorate departments reporting consistently for four years, by level of study, citizenship, and type of major support, 1967-70	93
C–16	Full-time faculty in doctorate departments reporting consistently for four years, by area of science, 1967-70	94
C–17	Postdoctorals in doctorate departments reporting consistently for four years, by area of science, 1967-70	95

TABLE C-1. GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY FIELD OF SCIENCE AND ENROLLMENT STATUS, 1970

AREA AND FIELD OF SCIENCE	TOTAL		FULL TIME		PART TIME	
	NUMBER	PERCENT DISTRI- BUTION	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL
TOTAL, ALL FIELDS OF SCIENCE	188,773	100.0	145,970	77.3	42,803	22.7
ENGINEERING	51,107	27.1	31,491	61.6	19,616	38.4
AERONAUTICAL	2,090	1.1	1,488	71.2	602	28.8
AGRICULTURAL	533	.3	440	82.6	93	17.4
CHEMICAL	4,677	2.5	3,135	67.0	1,542	33.0
CIVIL	6,907	3.7	4,884	70.7	2,023	29.3
ELECTRICAL	15,071	8.0	7,634	50.7	7,437	49.3
ENGINEERING SCIENCE	1,677	.9	1,292	77.0	385	23.0
INDUSTRIAL	5,529	2.9	2,835	51.3	2,694	48.7
MECHANICAL	7,621	4.0	4,394	57.7	3,227	42.3
METALLURGICAL AND MATERIALS	2,474	1.3	1,836	74.2	638	25.8
MINING	326	.2	275	84.4	51	15.6
NUCLEAR	1,243	.7	978	78.7	265	21.3
PETROLEUM	309	.2	197	63.8	112	36.2
OTHER ENGINEERING	2,650	1.4	2,103	79.4	547	20.6
PHYSICAL SCIENCES	33,648	17.8	29,522	87.7	4,126	12.3
ASTRONOMY	562	.3	534	95.0	28	5.0
ATMOSPHERIC SCIENCES	830	.4	704	84.8	126	15.2
CHEMISTRY	14,955	7.9	13,081	87.5	1,874	12.5
GEOSCIENCES	4,005	2.1	3,635	90.8	370	9.2
OCEANOGRAPHY	1,105	.6	1,001	90.6	104	9.4
PHYSICS	12,191	6.5	10,567	86.7	1,624	13.3
MATHEMATICAL SCIENCES	16,041	8.5	12,155	75.8	3,886	24.2
APPLIED MATHEMATICS	2,599	1.4	1,824	70.2	775	29.8
MATHEMATICS	11,903	6.3	9,099	76.4	2,804	23.6
STATISTICS	1,539	.8	1,232	80.1	307	19.9
LIFE SCIENCES	33,486	17.7	29,668	88.6	3,818	11.4
AGRICULTURE	7,574	4.0	6,551	86.5	1,023	13.5
BIOCHEMISTRY	3,594	1.9	3,401	94.6	193	5.4
BIOLOGY	7,500	4.0	6,397	85.3	1,103	14.7
BOTANY	2,610	1.4	2,313	88.6	297	11.4
MICROBIOLOGY	2,273	1.2	2,067	90.9	206	9.1
PHARMACOLOGY	1,513	.8	1,384	91.5	129	8.5
PHYSIOLOGY	1,458	.8	1,290	88.5	168	11.5
ZOOLOGY	3,995	2.1	3,751	93.9	244	6.1
OTHER LIFE SCIENCES	2,969	1.6	2,514	84.7	455	15.3
PSYCHOLOGY	14,473	7.7	12,656	87.4	1,817	12.6
SOCIAL SCIENCES	40,018	21.2	30,478	76.2	9,540	23.8
AGRICULTURAL ECONOMICS	917	.5	790	86.2	127	13.8
ANTHROPOLOGY	3,953	2.1	3,401	86.0	552	14.0
ECONOMICS (EXCEPT AGRICULTURAL)	8,768	4.6	7,086	80.8	1,682	19.2
GEOGRAPHY	1,981	1.0	1,761	88.9	220	11.1
HISTORY AND PHILOSOPHY OF SCIENCE	956	.5	864	90.4	92	9.6
LINGUISTICS	3,340	1.8	2,514	75.3	826	24.7
POLITICAL SCIENCE	10,981	5.8	7,430	67.7	3,551	32.3
SOCIOLOGY	7,851	4.2	5,889	75.0	1,962	25.0
SOCIOLOGY AND ANTHROPOLOGY	1,271	.7	743	58.5	528	41.5

TABLE C-2. GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY FIELD OF SCIENCE AND CITIZENSHIP, 1970

AREA AND FIELD OF SCIENCE	TOTAL		U.S. CITIZENS		FOREIGN STUDENTS	
	NUMBER	PERCENT DISTRI-BUTION	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL
TOTAL, ALL FIELDS OF SCIENCE	188,773	100.0	154,832	82.0	33,941	18.0
ENGINEERING	51,107	27.1	37,220	72.8	13,887	27.2
AERONAUTICAL	2,090	1.1	1,668	79.8	422	20.2
AGRICULTURAL	533	.3	326	61.2	207	38.8
CHEMICAL	4,677	2.5	3,115	66.6	1,562	33.4
CIVIL	6,907	3.7	4,568	66.1	2,339	33.9
ELECTRICAL	15,071	8.0	11,712	77.7	3,359	22.3
ENGINEERING SCIENCE	1,677	.9	1,146	68.3	531	31.7
INDUSTRIAL	5,529	2.9	4,281	77.4	1,248	22.6
MECHANICAL	7,621	4.0	5,636	74.0	1,985	26.0
METALLURGICAL AND MATERIALS	2,474	1.3	1,615	65.3	859	34.7
MINING	326	.2	173	53.1	153	46.9
NUCLEAR	1,243	.7	987	79.4	256	20.6
PETROLEUM	309	.2	194	62.8	115	37.2
OTHER ENGINEERING	2,650	1.4	1,799	67.9	851	32.1
PHYSICAL SCIENCES	33,648	17.8	27,394	81.4	6,254	18.6
ASTRONOMY	562	.3	481	85.6	81	14.4
ATMOSPHERIC SCIENCES	830	.4	686	82.7	144	17.3
CHEMISTRY	14,955	7.9	12,100	80.9	2,855	19.1
GEOSCIENCES	4,005	2.1	3,414	85.2	591	14.8
OCEANOGRAPHY	1,105	.6	1,016	91.9	89	8.1
PHYSICS	12,191	6.5	9,697	79.5	2,494	20.5
MATHEMATICAL SCIENCES	16,041	8.5	13,525	84.3	2,516	15.7
APPLIED MATHEMATICS	2,599	1.4	2,183	84.0	416	16.0
MATHEMATICS	11,903	6.3	10,280	86.4	1,623	13.6
STATISTICS	1,539	.8	1,062	69.0	477	31.0
LIFE SCIENCES	33,486	17.7	28,466	85.0	5,020	15.0
AGRICULTURE	7,574	4.0	5,556	73.4	2,018	26.6
BIOCHEMISTRY	3,594	1.9	2,956	82.2	638	17.8
BIOLOGY	7,500	4.0	6,882	91.8	618	8.2
BOTANY	2,610	1.4	2,194	84.1	416	15.9
MICROBIOLOGY	2,273	1.2	2,005	88.2	268	11.8
PHARMACOLOGY	1,513	.8	1,163	76.9	350	23.1
PHYSIOLOGY	1,458	.8	1,292	88.6	166	11.4
ZOOLOGY	3,995	2.1	3,742	93.7	253	6.3
OTHER LIFE SCIENCES	2,969	1.6	2,676	90.1	293	9.9
PSYCHOLOGY	14,473	7.7	13,929	96.2	544	3.8
SOCIAL SCIENCES	40,018	21.2	34,298	85.7	5,720	14.3
AGRICULTURAL ECONOMICS	917	.5	661	72.1	256	27.9
ANTHROPOLOGY	3,953	2.1	3,701	93.6	252	6.4
ECONOMICS (EXCEPT AGRICULTURAL)	8,768	4.6	6,486	74.0	2,282	26.0
GEOGRAPHY	1,981	1.0	1,689	85.3	292	14.7
HISTORY AND PHILOSOPHY OF SCIENCE	956	.5	866	90.6	90	9.4
LINGUISTICS	3,340	1.8	2,876	86.1	464	13.9
POLITICAL SCIENCE	10,981	5.8	9,907	90.2	1,074	9.8
SOCIOLOGY	7,851	4.2	6,995	89.1	856	10.9
SOCIOLOGY AND ANTHROPOLOGY	1,271	.7	1,117	87.9	154	12.1

TABLE C-3. GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY FIELD OF SCIENCE, ENROLLMENT STATUS, AND CITIZENSHIP, 1970

	FULL TIME					PART TIME				
		U.S. CITIZENS		FOREIGN STUDENTS			U.S. CITIZENS		FOREIGN STUDENTS	
AREA AND FIELD OF SCIENCE	TOTAL	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL	TOTAL	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL
TOTAL, ALL FIELDS OF SCIENCE	145,970	116,206	79.6	29,764	20.4	42,803	38,626	90.2	4,177	9.8
ENGINEERING	31,491	20,118	63.9	11,373	36.1	19,616	17,102	87.2	2,514	12.8
AERONAUTICAL	1,488	1,110	74.6	378	25.4	602	558	92.7	44	7.3
AGRICULTURAL	440	240	54.5	200	45.5	93	86	92.5	7	7.5
CHEMICAL	3,135	1,738	55.4	1,397	44.6	1,542	1,377	89.3	165	10.7
CIVIL	4,884	2,990	61.2	1,894	38.8	2,023	1,578	78.0	445	22.0
ELECTRICAL	7,634	5,137	67.3	2,497	32.7	7,437	6,575	88.4	862	11.6
ENGINEERING SCIENCE	1,292	798	61.8	494	38.2	385	348	90.4	37	9.6
INDUSTRIAL	2,835	1,911	67.4	924	32.6	2,694	2,370	88.0	324	12.0
MECHANICAL	4,394	2,789	63.5	1,605	36.5	3,227	2,847	88.2	380	11.8
METALLURGICAL AND MATERIALS	1,836	1,073	58.4	763	41.6	638	542	85.0	96	15.0
MINING	275	135	49.1	140	50.9	51	38	74.5	13	25.5
NUCLEAR	978	742	75.9	236	24.1	265	245	92.5	20	7.5
PETROLEUM	197	93	47.2	104	52.8	112	101	90.2	11	9.8
OTHER ENGINEERING	2,103	1,362	64.8	741	35.2	547	437	79.9	110	20.1
PHYSICAL SCIENCES	29,522	23,601	79.9	5,921	20.1	4,126	3,793	91.9	333	8.1
ASTRONOMY	534	456	85.4	78	14.6	28	25	89.3	3	10.7
ATMOSPHERIC SCIENCES	704	565	80.3	139	19.7	126	121	96.0	5	4.0
CHEMISTRY	13,081	10,398	79.5	2,683	20.5	1,874	1,702	90.8	172	9.2
GEOSCIENCES	3,635	3,070	84.5	565	15.5	370	344	93.0	26	7.0
OCEANOGRAPHY	1,001	920	91.9	81	8.1	104	96	92.3	8	7.7
PHYSICS	10,567	8,192	77.5	2,375	22.5	1,624	1,505	92.7	119	7.3
MATHEMATICAL SCIENCES	12,155	9,844	81.0	2,311	19.0	3,886	3,681	94.7	205	5.3
APPLIED MATHEMATICS	1,824	1,452	79.6	372	20.4	775	731	94.3	44	5.7
MATHEMATICS	9,099	7,601	83.5	1,498	16.5	2,804	2,679	95.5	125	4.5
STATISTICS	1,232	791	64.2	441	35.8	307	271	88.3	36	11.7
LIFE SCIENCES	29,668	24,956	84.1	4,712	15.9	3,818	3,510	91.9	308	8.1
AGRICULTURE	6,551	4,642	70.9	1,909	29.1	1,023	914	89.3	109	10.7
BIOCHEMISTRY	3,401	2,786	81.9	615	18.1	193	170	88.1	23	11.9
BIOLOGY	6,397	5,814	90.9	583	9.1	1,103	1,068	96.8	35	3.2
BOTANY	2,313	1,934	83.6	379	16.4	297	260	87.5	37	12.5
MICROBIOLOGY	2,067	1,810	87.6	257	12.4	206	195	94.7	11	5.3
PHARMACOLOGY	1,384	1,052	76.0	332	24.0	129	111	86.0	18	14.0
PHYSIOLOGY	1,290	1,153	89.4	137	10.6	168	139	82.7	29	17.3
ZOOLOGY	3,751	3,504	93.4	247	6.6	244	238	97.5	6	2.5
OTHER LIFE SCIENCES	2,514	2,261	89.9	253	10.1	455	415	91.2	40	8.8
PSYCHOLOGY	12,656	12,155	96.0	501	4.0	1,817	1,774	97.6	43	2.4
SOCIAL SCIENCES	30,478	25,532	83.8	4,946	16.2	9,540	8,766	91.9	774	8.1
AGRICULTURAL ECONOMICS	790	546	69.1	244	30.9	127	115	90.6	12	9.4
ANTHROPOLOGY	3,401	3,164	93.0	237	7.0	552	537	97.3	15	2.7
ECONOMICS (EXCEPT AGRICULTURAL)	7,086	5,125	72.3	1,961	27.7	1,682	1,361	80.9	321	19.1
GEOGRAPHY	1,761	1,479	84.0	282	16.0	220	210	95.5	10	4.5
HISTORY AND PHILOSOPHY OF SCIENCE	864	780	90.3	84	9.7	92	86	93.5	6	6.5
LINGUISTICS	2,514	2,103	83.7	411	16.3	826	773	93.6	53	6.4
POLITICAL SCIENCE	7,430	6,571	88.4	859	11.6	3,551	3,336	93.9	215	6.1
SOCIOLOGY	5,889	5,124	87.0	765	13.0	1,962	1,871	95.4	91	4.6
SOCIOLOGY AND ANTHROPOLOGY	743	640	86.1	103	13.9	528	477	90.3	51	9.7

TABLE C-4. GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY FIELD OF SCIENCE AND LEVEL OF STUDY, 1970

AREA AND FIELD OF SCIENCE	TOTAL		FIRST YEAR		BEYOND FIRST YEAR	
	NUMBER	PERCENT DISTRI-BUTION	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL
TOTAL, ALL FIELDS OF SCIENCE	188,773	100.0	64,417	34.1	124,356	65.9
ENGINEERING	51,107	27.1	22,098	43.2	29,009	56.8
AERONAUTICAL	2,090	1.1	815	39.0	1,275	61.0
AGRICULTURAL	533	.3	176	33.0	357	67.0
CHEMICAL	4,677	2.5	1,925	41.2	2,752	58.8
CIVIL	6,907	3.7	3,061	44.3	3,846	55.7
ELECTRICAL	15,071	8.0	6,911	45.9	8,160	54.1
ENGINEERING SCIENCE	1,677	.9	469	28.0	1,208	72.0
INDUSTRIAL	5,529	2.9	2,792	50.5	2,737	49.5
MECHANICAL	7,621	4.0	3,552	46.6	4,069	53.4
METALLURGICAL AND MATERIALS	2,474	1.3	765	30.9	1,709	69.1
MINING	326	.2	140	42.9	186	57.1
NUCLEAR	1,243	.7	437	35.2	806	64.8
PETROLEUM	309	.2	120	38.8	189	61.2
OTHER ENGINEERING	2,650	1.4	935	35.3	1,715	64.7
PHYSICAL SCIENCES	33,648	17.8	8,468	25.2	25,180	74.8
ASTRONOMY	562	.3	147	26.2	415	73.8
ATMOSPHERIC SCIENCES	830	.4	245	29.5	585	70.5
CHEMISTRY	14,955	7.9	3,930	26.3	11,025	73.7
GEOSCIENCES	4,005	2.1	1,176	29.4	2,829	70.6
OCEANOGRAPHY	1,105	.6	329	29.8	776	70.2
PHYSICS	12,191	6.5	2,641	21.7	9,550	78.3
MATHEMATICAL SCIENCES	16,041	8.5	5,633	35.1	10,408	64.9
APPLIED MATHEMATICS	2,599	1.4	988	38.0	1,611	62.0
MATHEMATICS	11,903	6.3	4,191	35.2	7,712	64.8
STATISTICS	1,539	.8	454	29.5	1,085	70.5
LIFE SCIENCES	33,486	17.7	9,910	29.6	23,576	70.4
AGRICULTURE	7,574	4.0	2,359	31.1	5,215	68.9
BIOCHEMISTRY	3,594	1.9	894	24.9	2,700	75.1
BIOLOGY	7,500	4.0	2,343	31.2	5,157	68.8
BOTANY	2,610	1.4	624	23.9	1,986	76.1
MICROBIOLOGY	2,273	1.2	712	31.3	1,561	68.7
PHARMACOLOGY	1,513	.8	452	29.9	1,061	70.1
PHYSIOLOGY	1,458	.8	370	25.4	1,088	74.6
ZOOLOGY	3,995	2.1	1,149	28.8	2,846	71.2
OTHER LIFE SCIENCES	2,969	1.6	1,007	33.9	1,962	66.1
PSYCHOLOGY	14,473	7.7	4,331	29.9	10,142	70.1
SOCIAL SCIENCES	40,018	21.2	13,977	34.9	26,041	65.1
AGRICULTURAL ECONOMICS	917	.5	283	30.9	634	69.1
ANTHROPOLOGY	3,953	2.1	1,289	32.6	2,664	67.4
ECONOMICS (EXCEPT AGRICULTURAL)	8,768	4.6	3,006	34.3	5,762	65.7
GEOGRAPHY	1,981	1.0	542	27.4	1,439	72.6
HISTORY AND PHILOSOPHY OF SCIENCE	956	.5	283	29.6	673	70.4
LINGUISTICS	3,340	1.8	1,141	34.2	2,199	65.8
POLITICAL SCIENCE	10,981	5.8	4,389	40.0	6,592	60.0
SOCIOLOGY	7,851	4.2	2,499	31.8	5,352	68.2
SOCIOLOGY AND ANTHROPOLOGY	1,271	.7	545	42.9	726	57.1

TABLE C-5. GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY FIELD OF SCIENCE, ENROLLMENT STATUS, AND LEVEL OF STUDY, 1970

AREA AND FIELD OF SCIENCE	FULL TIME					PART TIME				
	TOTAL	FIRST YEAR		BEYOND FIRST YEAR		TOTAL	FIRST YEAR		BEYOND FIRST YEAR	
		NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL		NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT UF TOTAL
TOTAL, ALL FIELDS OF SCIENCE........	145,970	47,154	32.3	98,816	67.7	42,803	17,263	40.3	25,540	59.7
ENGINEERING..........................	31,491	12,589	40.0	18,902	60.0	19,616	9,509	48.5	10,107	51.5
AERONAUTICAL......................	1,488	605	40.7	883	59.3	602	210	34.9	392	65.1
AGRICULTURAL......................	440	155	35.2	285	64.8	93	21	22.6	72	77.4
CHEMICAL..........................	3,135	1,125	35.9	2,010	64.1	1,542	800	51.9	742	48.1
CIVIL.............................	4,884	2,264	46.4	2,620	53.6	2,023	797	39.4	1,226	60.6
ELECTRICAL........................	7,634	3,055	40.0	4,579	60.0	7,437	3,856	51.8	3,581	48.2
ENGINEERING SCIENCE...............	1,292	368	28.5	924	71.5	385	101	26.2	284	73.8
INDUSTRIAL........................	2,835	1,325	46.7	1,510	53.3	2,694	1,467	54.5	1,227	45.5
MECHANICAL........................	4,394	1,890	43.0	2,504	57.0	3,227	1,662	51.5	1,565	48.5
METALLURGICAL AND MATERIALS.......	1,836	562	30.6	1,274	69.4	638	203	31.8	435	68.2
MINING............................	275	124	45.1	151	54.9	51	16	31.4	35	68.6
NUCLEAR...........................	978	339	34.7	639	65.3	265	98	37.0	167	63.0
PETROLEUM.........................	197	71	36.0	126	64.0	112	49	43.8	63	56.3
OTHER ENGINEERING.................	2,103	706	33.6	1,397	66.4	547	229	41.9	318	58.1
PHYSICAL SCIENCES....................	29,522	7,423	25.1	22,099	74.9	4,126	1,045	25.3	3,081	74.7
ASTRONOMY.........................	534	144	27.0	390	73.0	28	3	10.7	25	89.3
ATMOSPHERIC SCIENCES..............	704	229	32.5	475	67.5	126	16	12.7	110	87.3
CHEMISTRY.........................	13,081	3,342	25.5	9,739	74.5	1,874	588	31.4	1,286	68.6
GEOSCIENCES.......................	3,635	1,109	30.5	2,526	69.5	370	67	18.1	303	81.9
OCEANOGRAPHY......................	1,001	310	31.0	691	69.0	104	19	18.3	85	81.7
PHYSICS...........................	10,567	2,289	21.7	8,278	78.3	1,624	352	21.7	1,272	78.3
MATHEMATICAL SCIENCES................	12,155	4,148	34.1	8,007	65.9	3,886	1,485	38.2	2,401	61.8
APPLIED MATHEMATICS...............	1,824	652	35.7	1,172	64.3	775	336	43.4	439	56.6
MATHEMATICS.......................	9,099	3,123	34.3	5,976	65.7	2,804	1,068	38.1	1,736	61.9
STATISTICS........................	1,232	373	30.3	859	69.7	307	81	26.4	226	73.6
LIFE SCIENCES........................	29,668	8,836	29.8	20,832	70.2	3,818	1,074	28.1	2,744	71.9
AGRICULTURE.......................	6,551	2,162	33.0	4,389	67.0	1,023	197	19.3	826	80.7
BIOCHEMISTRY......................	3,401	830	24.4	2,571	75.6	193	64	33.2	129	66.8
BIOLOGY...........................	6,397	1,920	30.0	4,477	70.0	1,103	423	38.3	680	61.7
BOTANY............................	2,313	567	24.5	1,746	75.5	297	57	19.2	240	80.8
MICROBIOLOGY......................	2,067	661	32.0	1,406	68.0	206	51	24.8	155	75.2
PHARMACOLOGY......................	1,384	409	29.6	975	70.4	129	43	33.3	86	66.7
PHYSIOLOGY........................	1,290	322	25.0	968	75.0	168	48	28.6	120	71.4
ZOOLOGY...........................	3,751	1,113	29.7	2,638	70.3	244	36	14.8	208	85.2
OTHER LIFE SCIENCES...............	2,514	852	33.9	1,662	66.1	455	155	34.1	300	65.9
PSYCHOLOGY...........................	12,656	3,720	29.4	8,936	70.6	1,817	611	33.6	1,206	66.4
SOCIAL SCIENCES......................	30,478	10,438	34.2	20,040	65.8	9,540	3,539	37.1	6,001	62.9
AGRICULTURAL ECONOMICS............	790	271	34.3	519	65.7	127	12	9.4	115	90.6
ANTHROPOLOGY......................	3,401	1,082	31.8	2,319	68.2	552	207	37.5	345	62.5
ECONOMICS (EXCEPT AGRICULTURAL)...	7,086	2,443	34.5	4,643	65.5	1,682	563	33.5	1,119	66.5
GEOGRAPHY.........................	1,761	510	29.0	1,251	71.0	220	32	14.5	188	85.5
HISTORY AND PHILOSOPHY OF SCIENCE.	864	265	30.7	599	69.3	92	18	19.6	74	80.4
LINGUISTICS.......................	2,514	890	35.4	1,624	64.6	826	251	30.4	575	69.6
POLITICAL SCIENCE.................	7,430	2,722	36.6	4,708	63.4	3,551	1,667	46.9	1,884	53.1
SOCIOLOGY.........................	5,889	1,949	33.1	3,940	66.9	1,962	550	28.0	1,412	72.0
SOCIOLOGY AND ANTHROPOLOGY........	743	306	41.2	437	58.8	528	239	45.3	289	54.7

TABLE C-6. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY FIELD OF SCIENCE AND TYPE OF MAJOR SUPPORT, 1970

AREA AND FIELD OF SCIENCE	TOTAL		FELLOWSHIPS AND TRAINEESHIPS		RESEARCH ASSISTANTSHIPS		TEACHING ASSISTANTSHIPS		OTHER TYPES OF SUPPORT	
	NUMBER	PERCENT DISTRI-BUTION	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT OF TOTAL
TOTAL, ALL FIELDS OF SCIENCE	145,970	100.0	40,416	27.7	31,211	21.4	35,594	24.4	38,749	26.5
ENGINEERING	31,491	21.6	7,480	23.8	9,434	30.0	4,401	14.0	10,176	32.3
AERONAUTICAL	1,488	1.0	325	21.8	540	36.3	185	12.4	438	29.4
AGRICULTURAL	440	.3	102	23.2	211	48.0	25	5.7	102	23.2
CHEMICAL	3,135	2.1	963	30.7	988	31.5	519	16.6	665	21.2
CIVIL	4,884	3.3	1,403	28.7	1,276	26.1	482	9.9	1,723	35.3
ELECTRICAL	7,634	5.2	1,413	18.5	2,065	27.1	1,393	18.2	2,763	36.2
ENGINEERING SCIENCE	1,292	.9	381	29.5	391	30.3	287	22.2	233	18.0
INDUSTRIAL	2,835	1.9	555	19.6	463	16.3	314	11.1	1,503	53.0
MECHANICAL	4,394	3.0	909	20.7	1,267	28.8	673	15.3	1,545	35.2
METALLURGICAL AND MATERIALS	1,836	1.3	377	20.5	1,040	56.6	193	10.5	226	12.3
MINING	275	.2	73	26.5	116	42.2	25	9.1	61	22.2
NUCLEAR	978	.7	372	38.0	244	24.9	91	9.3	271	27.7
PETROLEUM	197	.1	38	19.3	71	36.0	27	13.7	61	31.0
OTHER ENGINEERING	2,103	1.4	569	27.1	762	36.2	187	8.9	585	27.8
PHYSICAL SCIENCES	29,522	20.2	6,178	20.9	9,037	30.6	10,703	36.3	3,604	12.2
ASTRONOMY	534	.4	145	27.2	209	39.1	105	19.7	75	14.0
ATMOSPHERIC SCIENCES	704	.5	153	21.7	351	49.9	51	7.2	149	21.2
CHEMISTRY	13,081	9.0	2,725	20.8	3,461	26.5	5,835	44.6	1,060	8.1
GEOSCIENCES	3,635	2.5	833	22.9	778	21.4	1,213	33.4	811	22.3
OCEANOGRAPHY	1,001	.7	211	21.1	518	51.7	39	3.9	233	23.3
PHYSICS	10,567	7.2	2,111	20.0	3,720	35.2	3,460	32.7	1,276	12.1
MATHEMATICAL SCIENCES	12,155	8.3	2,556	21.0	1,269	10.4	5,373	44.2	2,957	24.3
APPLIED MATHEMATICS	1,824	1.2	290	15.9	490	26.9	400	21.9	644	35.3
MATHEMATICS	9,099	6.2	1,849	20.3	544	6.0	4,693	51.6	2,013	22.1
STATISTICS	1,232	.8	417	33.8	235	19.1	280	22.7	300	24.4
LIFE SCIENCES	29,668	20.3	9,954	33.6	6,877	23.2	6,615	22.3	6,222	21.0
AGRICULTURE	6,551	4.5	1,401	21.4	3,165	48.3	476	7.3	1,509	23.0
BIOCHEMISTRY	3,401	2.3	1,746	51.3	865	25.4	397	11.7	393	11.6
BIOLOGY	6,397	4.4	2,242	35.0	610	9.5	2,019	31.6	1,526	23.9
BOTANY	2,313	1.6	447	19.3	632	27.3	840	36.3	394	17.0
MICROBIOLOGY	2,067	1.4	914	44.2	371	17.9	449	21.7	333	16.1
PHARMACOLOGY	1,384	.9	652	47.1	199	14.4	319	23.0	214	15.5
PHYSIOLOGY	1,290	.9	665	51.6	165	12.8	224	17.4	236	18.3
ZOOLOGY	3,751	2.6	775	20.7	560	14.9	1,489	39.7	927	24.7
OTHER LIFE SCIENCES	2,514	1.7	1,112	44.2	310	12.3	402	16.0	690	27.4
PSYCHOLOGY	12,656	8.7	4,855	38.4	1,714	13.5	2,535	20.0	3,552	28.1
SOCIAL SCIENCES	30,478	20.9	9,393	30.8	2,880	9.4	5,967	19.6	12,238	40.2
AGRICULTURAL ECONOMICS	790	.5	175	22.2	405	51.3	26	3.3	184	23.3
ANTHROPOLOGY	3,401	2.3	1,181	34.7	192	5.6	629	18.5	1,399	41.1
ECONOMICS (EXCEPT AGRICULTURAL)	7,086	4.9	2,115	29.8	829	11.7	1,506	21.3	2,636	37.2
GEOGRAPHY	1,761	1.2	434	24.6	120	6.8	579	32.9	628	35.7
HISTORY AND PHILOSOPHY OF SCIENCE	864	.6	309	35.8	23	2.7	254	29.4	278	32.2
LINGUISTICS	2,514	1.7	856	34.0	214	8.5	474	18.9	970	38.6
POLITICAL SCIENCE	7,430	5.1	2,112	28.4	502	6.8	1,129	15.2	3,687	49.6
SOCIOLOGY	5,889	4.0	2,029	34.5	516	8.8	1,233	20.9	2,111	35.8
SOCIOLOGY AND ANTHROPOLOGY	743	.5	182	24.5	79	10.6	137	18.4	345	46.4

TABLE C-7. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY AREA OF SCIENCE, LEVEL OF STUDY, AND TYPE OF MAJOR SUPPORT, 1970

AREA OF SCIENCE	TOTAL	FELLOWSHIPS AND TRAINEESHIPS	RESEARCH ASSISTANTSHIPS	TEACHING ASSISTANTSHIPS	OTHER TYPES OF SUPPORT
TOTAL, ALL AREAS OF SCIENCE.........	145,970	40,416	31,211	35,594	38,749
ENGINEERING........................	31,491	7,480	9,434	4,401	10,176
PHYSICAL SCIENCES..................	29,522	6,178	9,037	10,703	3,604
MATHEMATICAL SCIENCES..............	12,155	2,556	1,269	5,373	2,957
LIFE SCIENCES......................	29,668	9,954	6,877	6,615	6,222
PSYCHOLOGY.........................	12,656	4,855	1,714	2,535	3,552
SOCIAL SCIENCES....................	30,478	9,393	2,880	5,967	12,238
FIRST YEAR, TOTAL..	47,154	12,506	6,471	10,941	17,236
ENGINEERING........................	12,589	3,145	2,442	1,422	5,580
PHYSICAL SCIENCES..................	7,423	1,591	812	3,746	1,274
MATHEMATICAL SCIENCES..............	4,148	941	248	1,632	1,327
LIFE SCIENCES......................	8,836	2,403	1,597	2,100	2,736
PSYCHOLOGY.........................	3,720	1,390	491	680	1,159
SOCIAL SCIENCES....................	10,438	3,036	881	1,361	5,160
BEYOND FIRST YEAR, TOTAL.......	98,816	27,910	24,740	24,653	21,513
ENGINEERING........................	18,902	4,335	6,992	2,979	4,596
PHYSICAL SCIENCES..................	22,099	4,587	8,225	6,957	2,330
MATHEMATICAL SCIENCES..............	8,007	1,615	1,021	3,741	1,630
LIFE SCIENCES......................	20,832	7,551	5,280	4,515	3,486
PSYCHOLOGY.........................	8,936	3,465	1,223	1,855	2,393
SOCIAL SCIENCES....................	20,040	6,357	1,999	4,606	7,078
			PERCENT DISTRIBUTION		
TOTAL, ALL AREAS OF SCIENCE.........	100.0	100.0	100.0	100.0	100.0
ENGINEERING........................	21.6	18.5	30.2	12.4	26.3
PHYSICAL SCIENCES..................	20.2	15.3	29.0	30.1	9.3
MATHEMATICAL SCIENCES..............	8.3	6.3	4.1	15.1	7.6
LIFE SCIENCES......................	20.3	24.6	22.0	18.6	16.1
PSYCHOLOGY.........................	8.7	12.0	5.5	7.1	9.2
SOCIAL SCIENCES....................	20.9	23.2	9.2	16.8	31.6
FIRST YEAR, TOTAL..	32.3	30.9	20.7	30.7	44.5
ENGINEERING........................	8.6	7.8	7.8	4.0	14.4
PHYSICAL SCIENCES..................	5.1	3.9	2.6	10.5	3.3
MATHEMATICAL SCIENCES..............	2.8	2.3	.8	4.6	3.4
LIFE SCIENCES......................	6.1	5.9	5.1	5.9	7.1
PSYCHOLOGY.........................	2.5	3.4	1.6	1.9	3.0
SOCIAL SCIENCES....................	7.2	7.5	2.8	3.8	13.3
BEYOND FIRST YEAR, TOTAL.......	67.7	69.1	79.3	69.3	55.5
ENGINEERING........................	12.9	10.7	22.4	8.4	11.9
PHYSICAL SCIENCES..................	15.1	11.3	26.4	19.5	6.0
MATHEMATICAL SCIENCES..............	5.5	4.0	3.3	10.5	4.2
LIFE SCIENCES......................	14.3	18.7	16.9	12.7	9.0
PSYCHOLOGY.........................	6.1	8.6	3.9	5.2	6.2
SOCIAL SCIENCES....................	13.7	15.7	6.4	12.9	18.3
			PERCENT OF TOTAL		
TOTAL, ALL AREAS OF SCIENCE.........	100.0	27.7	21.4	24.4	26.5
ENGINEERING........................	100.0	23.8	30.0	14.0	32.3
PHYSICAL SCIENCES..................	100.0	20.9	30.6	36.3	12.2
MATHEMATICAL SCIENCES..............	100.0	21.0	10.4	44.2	24.3
LIFE SCIENCES......................	100.0	33.6	23.2	22.3	21.0
PSYCHOLOGY.........................	100.0	38.4	13.5	20.0	28.1
SOCIAL SCIENCES....................	100.0	30.8	9.4	19.6	40.2
FIRST YEAR, TOTAL..	100.0	26.5	13.7	23.2	36.6
ENGINEERING........................	100.0	25.0	19.4	11.3	44.3
PHYSICAL SCIENCES..................	100.0	21.4	10.9	50.5	17.2
MATHEMATICAL SCIENCES..............	100.0	22.7	6.0	39.3	32.0
LIFE SCIENCES......................	100.0	27.2	18.1	23.8	31.0
PSYCHOLOGY.........................	100.0	37.4	13.2	18.3	31.2
SOCIAL SCIENCES....................	100.0	29.1	8.4	13.0	49.4
BEYOND FIRST YEAR, TOTAL.......	100.0	28.2	25.0	24.9	21.8
ENGINEERING........................	100.0	22.9	37.0	15.8	24.3
PHYSICAL SCIENCES..................	100.0	20.8	37.2	31.5	10.5
MATHEMATICAL SCIENCES..............	100.0	20.2	12.8	46.7	20.4
LIFE SCIENCES......................	100.0	36.2	25.3	21.7	16.7
PSYCHOLOGY.........................	100.0	38.8	13.7	20.8	26.8
SOCIAL SCIENCES....................	100.0	31.7	10.0	23.0	35.3

TABLE C-8. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY SOURCE OF MAJOR SUPPORT AND AREA OF SCIENCE, 1970

SOURCE OF MAJOR SUPPORT	TOTAL	ENGI-NEERING	PHYSICAL SCIENCES	MATHE-MATICAL SCIENCES	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES
TOTAL, ALL SOURCES OF SUPPORT................	145,970	31,491	29,522	12,155	29,668	12,656	30,478
ALL U.S. SOURCES, TOTAL......................	143,523	30,533	29,229	11,995	29,157	12,624	29,985
U.S. GOVERNMENT..............................	50,256	12,201	12,088	2,936	11,710	5,127	6,194
ATOMIC ENERGY COMMISSION................	2,758	817	1,614	42	186	3	96
DEPARTMENT OF AGRICULTURE................	1,114	60	12	9	857	0	176
DEPARTMENT OF DEFENSE....................	5,339	2,969	1,489	317	151	134	279
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL.........	18,958	1,998	2,338	541	7,143	3,577	3,361
NATIONAL DEFENSE EDUCATION ACT........	4,941	740	942	318	1,000	432	1,509
NATIONAL INSTITUTES OF HEALTH..........	12,379	1,054	1,279	162	5,856	2,683	1,345
OTHER HEW.............................	1,638	204	117	61	287	462	507
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION..............	1,988	1,038	675	71	128	39	37
NATIONAL SCIENCE FOUNDATION.............	13,957	3,272	5,023	1,759	2,022	523	1,358
ALL OTHER U.S. GOVERNMENT AGENCIES......	6,142	2,047	937	197	1,223	851	887
OTHER U.S. SOURCES...........................	93,267	18,332	17,141	9,059	17,447	7,497	23,791
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS......................	53,795	8,424	12,946	6,526	10,692	4,303	10,904
PRIVATE FOUNDATIONS......................	4,297	754	684	153	941	242	1,523
INDUSTRY.................................	3,888	2,214	593	240	514	98	229
SELF-SUPPORT.............................	28,516	6,446	2,423	2,023	4,723	2,492	10,409
ALL OTHER U.S. SOURCES...................	2,771	494	495	117	577	362	726
FOREIGN SOURCES, TOTAL.......................	2,447	958	293	160	511	32	493
				PERCENT DISTRIBUTION			
TOTAL, ALL SOURCES OF SUPPORT................	100.0	100.0	100.0	100.0	100.0	100.0	100.0
ALL U.S. SOURCES, TOTAL......................	98.3	97.0	99.0	98.7	98.3	99.7	98.4
U.S. GOVERNMENT..............................	34.4	38.7	40.9	24.2	39.5	40.5	20.3
ATOMIC ENERGY COMMISSION................	1.9	2.6	5.5	.3	.6	a/	.3
DEPARTMENT OF AGRICULTURE................	.8	.2	a/	.1	2.9	-	.6
DEPARTMENT OF DEFENSE....................	3.7	9.4	5.0	2.6	.5	1.1	.9
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL.........	13.0	6.3	7.9	4.5	24.1	28.3	11.0
NATIONAL DEFENSE EDUCATION ACT........	3.4	2.3	3.2	2.6	3.4	3.4	5.0
NATIONAL INSTITUTES OF HEALTH..........	8.5	3.3	4.3	1.3	19.7	21.2	4.4
OTHER HEW.............................	1.1	.6	.4	.5	1.0	3.7	1.7
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION..............	1.4	3.3	2.3	.6	.4	.3	.1
NATIONAL SCIENCE FOUNDATION.............	9.6	10.4	17.0	14.5	6.8	4.1	4.5
ALL OTHER U.S. GOVERNMENT AGENCIES......	4.2	6.5	3.2	1.6	4.1	6.7	2.9
OTHER U.S. SOURCES...........................	63.9	58.2	58.1	74.5	58.8	59.2	78.1
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS......................	36.9	26.8	43.9	53.7	36.0	34.0	35.8
PRIVATE FOUNDATIONS......................	2.9	2.4	2.3	1.3	3.2	1.9	5.0
INDUSTRY.................................	2.7	7.0	2.0	2.0	1.7	.8	.8
SELF-SUPPORT.............................	19.5	20.5	8.2	16.6	15.9	19.7	34.2
ALL OTHER U.S. SOURCES...................	1.9	1.6	1.7	1.0	1.9	2.9	2.4
FOREIGN SOURCES, TOTAL.......................	1.7	3.0	1.0	1.3	1.7	.3	1.6

INDUSTRY	3,888	2,214	593	240	514	98	229
SELF-SUPPORT	28,516	6,446	2,423	2,023	4,723	2,492	10,409
ALL OTHER U.S. SOURCES	2,771	494	495	117	577	362	726
FOREIGN SOURCES, TOTAL	2,447	958	293	160	511	32	493
				PERCENT DISTRIBUTION			
TOTAL, ALL SOURCES OF SUPPORT	100.0	100.0	100.0	100.0	100.0	100.0	100.0
ALL U.S. SOURCES, TOTAL	98.3	97.0	99.0	98.7	98.3	99.7	98.4
U.S. GOVERNMENT	34.4	38.7	40.9	24.2	39.5	40.5	20.3
ATOMIC ENERGY COMMISSION	1.9	2.6	5.5	.3	.6	a/	.3
DEPARTMENT OF AGRICULTURE	.8	.2	a/	.1	2.9	-	.6
DEPARTMENT OF DEFENSE	3.7	9.4	5.0	2.6	.5	1.1	.9
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL	13.0	6.3	7.9	4.5	24.1	28.3	11.0
NATIONAL DEFENSE EDUCATION ACT	3.4	2.3	3.2	2.6	3.4	3.4	5.0
NATIONAL INSTITUTES OF HEALTH	8.5	3.3	4.3	1.3	19.7	21.2	4.4
OTHER HEW	1.1	.6	.4	.5	1.0	3.7	1.7
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	1.4	3.3	2.3	.6	.4	.3	.1
NATIONAL SCIENCE FOUNDATION	9.6	10.4	17.0	14.5	6.8	4.1	4.5
ALL OTHER U.S. GOVERNMENT AGENCIES	4.2	6.5	3.2	1.6	4.1	6.7	2.9
OTHER U.S. SOURCES	63.9	58.2	58.1	74.5	58.8	59.2	78.1
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	36.9	26.8	43.9	53.7	36.0	34.0	35.8
PRIVATE FOUNDATIONS	2.9	2.4	2.3	1.3	3.2	1.9	5.0
INDUSTRY	2.7	7.0	2.0	2.0	1.7	.8	.8
SELF-SUPPORT	19.5	20.5	8.2	16.6	15.9	19.7	34.2
ALL OTHER U.S. SOURCES	1.9	1.6	1.7	1.0	1.9	2.9	2.4
FOREIGN SOURCES, TOTAL	1.7	3.0	1.0	1.3	1.7	.3	1.6
				PERCENT OF TOTAL			
TOTAL, ALL SOURCES OF SUPPORT	100.0	21.6	20.2	8.3	20.3	8.7	20.9
ALL U.S. SOURCES, TOTAL	100.0	21.3	20.4	8.4	20.3	8.8	20.9
U.S. GOVERNMENT	100.0	24.3	24.1	5.8	23.3	10.2	12.3
ATOMIC ENERGY COMMISSION	100.0	29.6	58.5	1.5	6.7	.1	3.5
DEPARTMENT OF AGRICULTURE	100.0	5.4	1.1	.8	76.9	.0	15.8
DEPARTMENT OF DEFENSE	100.0	55.6	27.9	5.9	2.8	2.5	5.2
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL	100.0	10.5	12.3	2.9	37.7	18.9	17.7
NATIONAL DEFENSE EDUCATION ACT	100.0	15.0	19.1	6.4	20.2	8.7	30.5
NATIONAL INSTITUTES OF HEALTH	100.0	8.5	10.3	1.3	47.3	21.7	10.9
OTHER HEW	100.0	12.5	7.1	3.7	17.5	28.2	31.0
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	100.0	52.2	34.0	3.6	6.4	2.0	1.9
NATIONAL SCIENCE FOUNDATION	100.0	23.4	36.0	12.6	14.5	3.7	9.7
ALL OTHER U.S. GOVERNMENT AGENCIES	100.0	33.3	15.3	3.2	19.9	13.9	14.4
OTHER U.S. SOURCES	100.0	19.7	18.4	9.7	18.7	8.0	25.5
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	100.0	15.7	24.1	12.1	19.9	8.0	20.3
PRIVATE FOUNDATIONS	100.0	17.5	15.9	3.6	21.9	5.6	35.4
INDUSTRY	100.0	56.9	15.3	6.2	13.2	2.5	5.9
SELF-SUPPORT	100.0	22.6	8.5	7.1	16.6	8.7	36.5
ALL OTHER U.S. SOURCES	100.0	17.8	17.9	4.2	20.8	13.1	26.2
FOREIGN SOURCES, TOTAL	100.0	39.1	12.0	6.5	20.9	1.3	20.1

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a/ Less than 0.05 percent.

TABLE C-9. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS, BY SOURCE AND TYPE OF MAJOR SUPPORT, 1970

SOURCE OF MAJOR SUPPORT	TOTAL	FELLOWSHIPS AND TRAINEESHIPS	RESEARCH ASSISTANTSHIPS	TEACHING ASSISTANTSHIPS	OTHER TYPES OF SUPPORT
TOTAL, ALL SOURCES OF SUPPORT	145,970	40,416	31,211	35,594	38,749
ALL U.S. SOURCES, TOTAL	143,523	38,979	31,151	35,594	37,799
U.S. GOVERNMENT	50,256	26,987	19,812	369	3,088
ATOMIC ENERGY COMMISSION	2,758	414	2,227	0	117
DEPARTMENT OF AGRICULTURE	1,114	36	1,014	0	64
DEPARTMENT OF DEFENSE	5,339	340	3,850	0	1,149
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL	18,958	15,491	3,246	79	142
NATIONAL DEFENSE EDUCATION ACT	4,941	4,861	75	0	5
NATIONAL INSTITUTES OF HEALTH	12,379	9,432	2,802	54	91
OTHER HEW	1,638	1,198	369	25	46
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	1,988	598	1,307	0	83
NATIONAL SCIENCE FOUNDATION	13,957	7,623	5,828	174	332
ALL OTHER U.S. GOVERNMENT AGENCIES	6,142	2,485	2,340	116	1,201
OTHER U.S. SOURCES	93,267	11,992	11,339	35,225	34,711
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	53,795	7,333	9,132	34,950	2,380
PRIVATE FOUNDATIONS	4,297	2,846	1,053	140	258
INDUSTRY	3,888	1,317	904	13	1,654
SELF-SUPPORT	28,516	0	0	0	28,516
ALL OTHER U.S. SOURCES	2,771	496	250	122	1,903
FOREIGN SOURCES, TOTAL	2,447	1,437	60	0	950
			PERCENT DISTRIBUTION		
TOTAL, ALL SOURCES OF SUPPORT	100.0	100.0	100.0	100.0	100.0
ALL U.S. SOURCES, TOTAL	98.3	96.4	99.8	100.0	97.5
U.S. GOVERNMENT	34.4	66.8	63.5	1.0	8.0
ATOMIC ENERGY COMMISSION	1.9	1.0	7.1	a/	.3
DEPARTMENT OF AGRICULTURE	.8	.1	3.2	a/	.2
DEPARTMENT OF DEFENSE	3.7	.8	12.3	a/	3.0
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL	13.0	38.3	10.4	.2	.4
NATIONAL DEFENSE EDUCATION ACT	3.4	12.0	.2	a/	a/
NATIONAL INSTITUTES OF HEALTH	8.5	23.3	9.0	.2	.2
OTHER HEW	1.1	3.0	1.2	.1	.1
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	1.4	1.5	4.2	a/	.2
NATIONAL SCIENCE FOUNDATION	9.6	18.9	18.7	.5	.9
ALL OTHER U.S. GOVERNMENT AGENCIES	4.2	6.1	7.5	.3	3.1
OTHER U.S. SOURCES	63.9	29.7	36.3	99.0	89.6
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	36.9	18.1	29.3	98.2	6.1
PRIVATE FOUNDATIONS	2.9	7.0	3.4	.4	.7
INDUSTRY	2.7	3.3	2.9	a/	4.3
SELF-SUPPORT	19.5	-	-	-	73.6
ALL OTHER U.S. SOURCES	1.9	1.2	.8	.3	4.9
FOREIGN SOURCES, TOTAL	1.7	3.6	.2	.0	2.5
			PERCENT OF TOTAL		
TOTAL, ALL SOURCES OF SUPPORT	100.0	27.7	21.4	24.4	26.5

TOTAL, ALL SOURCES OF SUPPORT	100.0	100.0	100.0	100.0	
ALL U.S. SOURCES, TOTAL	98.3	96.4	99.8	100.0	97.5
U.S. GOVERNMENT	34.4	66.8	63.5	1.0	8.0
ATOMIC ENERGY COMMISSION	1.9	1.0	7.1	a/	.3
DEPARTMENT OF AGRICULTURE	.8	.1	3.2	a/	.2
DEPARTMENT OF DEFENSE	3.7	.8	12.3	a/	3.0
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL	13.0	38.3	10.4	.2	.4
NATIONAL DEFENSE EDUCATION ACT	3.4	12.0	.2	a/	a/
NATIONAL INSTITUTES OF HEALTH	8.5	23.3	9.0	.2	.2
OTHER HEW	1.1	3.0	1.2	.1	.1
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	1.4	1.5	4.2	a/	.2
NATIONAL SCIENCE FOUNDATION	9.6	18.9	18.7	.5	.9
ALL OTHER U.S. GOVERNMENT AGENCIES	4.2	6.1	7.5	.3	3.1
OTHER U.S. SOURCES	63.9	29.7	36.3	99.0	89.6
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	36.9	18.1	29.3	98.2	6.1
PRIVATE FOUNDATIONS	2.9	7.0	3.4	.4	.7
INDUSTRY	2.7	3.3	2.9	a/	4.3
SELF-SUPPORT	19.5	-	-	-	73.6
ALL OTHER U.S. SOURCES	1.9	1.2	.8	.3	4.9
FOREIGN SOURCES, TOTAL	1.7	3.6	.2	.0	2.5
			PERCENT OF TOTAL		
TOTAL, ALL SOURCES OF SUPPORT	100.0	27.7	21.4	24.4	26.5
ALL U.S. SOURCES, TOTAL	100.0	27.2	21.7	24.8	26.3
U.S. GOVERNMENT	100.0	53.7	39.4	.7	6.1
ATOMIC ENERGY COMMISSION	100.0	15.0	80.7	-	4.2
DEPARTMENT OF AGRICULTURE	100.0	3.2	91.0	-	5.7
DEPARTMENT OF DEFENSE	100.0	6.4	72.1	-	21.5
DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, TOTAL	100.0	81.7	17.1	.4	.7
NATIONAL DEFENSE EDUCATION ACT	100.0	98.4	1.5	-	.1
NATIONAL INSTITUTES OF HEALTH	100.0	76.2	22.6	.4	.7
OTHER HEW	100.0	73.1	22.5	1.5	2.8
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	100.0	30.1	65.7	-	4.2
NATIONAL SCIENCE FOUNDATION	100.0	54.6	41.8	1.2	2.4
ALL OTHER U.S. GOVERNMENT AGENCIES	100.0	40.5	38.1	1.9	19.6
OTHER U.S. SOURCES	100.0	12.9	12.2	37.8	37.2
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	100.0	13.6	17.0	65.0	4.4
PRIVATE FOUNDATIONS	100.0	66.2	24.5	3.3	6.0
INDUSTRY	100.0	33.9	23.3	.3	42.5
SELF-SUPPORT	100.0	-	-	-	100.0
ALL OTHER U.S. SOURCES	100.0	17.9	9.0	4.4	68.7
FOREIGN SOURCES, TOTAL	100.0	58.7	2.5	-	38.8

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a/ Less than 0.05 percent.

TABLE C-10. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS SUPPORTED BY U.S. GOVERNMENT SOURCES, BY FIELD OF SCIENCE AND FEDERAL AGENCY, 1970

					HEW						
AREA AND FIELD OF SCIENCE	TOTAL	AEC	DEPT. OF AGRI.	DEPT. OF DEFENSE	TOTAL	NDEA	PHS (NIH) (NIMH)	OTHER HEW	NASA	NSF	OTHER U.S. GOVT.
TOTAL, ALL FIELDS OF SCIENCE	50,256	2,758	1,114	5,339	18,958	4,941	12,379	1,638	1,988	13,957	6,142
ENGINEERING	12,201	817	60	2,969	1,998	740	1,054	204	1,038	3,272	2,047
AERONAUTICAL	791	3	0	274	50	41	9	0	214	152	98
AGRICULTURAL	137	0	24	1	21	14	5	2	3	26	62
CHEMICAL	1,150	83	13	109	246	122	95	29	52	476	171
CIVIL	1,945	19	8	313	441	57	300	84	35	400	729
ELECTRICAL	2,601	35	6.	770	380	172	186	22	303	860	247
ENGINEERING SCIENCE	550	39	1	163	77	39	37	1	49	180	41
INDUSTRIAL	828	5	2	240	127	66	46	15	26	184	244
MECHANICAL	1,619	55	3	427	276	117	118	41	205	426	227
METALLURGICAL AND MATERIALS	1,024	220	0	346	95	49	46	0	53	251	59
MINING	78	7	0	11	10	7	0	3	5	10	35
NUCLEAR	498	288	0	49	37	19	18	0	13	72	39
PETROLEUM	63	0	0	11	9	5	4	0	6	24	13
OTHER ENGINEERING	917	63	3	255	229	32	190	7	74	211	82
PHYSICAL SCIENCES	12,088	1,614	12	1,489	2,338	942	1,279	117	675	5,023	937
ASTRONOMY	292	0	0	6	19	19	0	0	54	200	13
ATMOSPHERIC SCIENCES	491	22	1	98	42	15	20	7	43	198	87
CHEMISTRY	4,774	399	11	364	1,673	406	1,185	82	116	1,967	244
GEOSCIENCES	1,127	17	0	148	161	147	8	6	103	546	152
OCEANOGRAPHY	567	19	0	121	50	29	16	5	9	250	118
PHYSICS	4,837	1,157	0	752	393	326	50	17	350	1,862	323
MATHEMATICAL SCIENCES	2,936	42	9	317	541	318	162	61	71	1,759	197
APPLIED MATHEMATICS	561	35	4	135	42	21	15	6	11	259	75
MATHEMATICS	1,947	7	2	105	315	256	15	44	42	1,388	88
STATISTICS	428	0	3	77	184	41	132	11	18	112	34
LIFE SCIENCES	11,710	186	857	151	7,143	1,000	5,856	287	128	2,022	1,223
AGRICULTURE	2,199	27	612	49	642	201	418	23	16	296	557
BIOCHEMISTRY	2,104	72	42	19	1,648	113	1,523	12	22	241	60
BIOLOGY	2,244	39	37	16	1,419	211	1,089	119	16	574	143
BOTANY	629	12	69	4	220	104	112	4	9	225	90
MICROBIOLOGY	1,088	4	32	17	840	81	733	26	6	110	79
PHARMACOLOGY	650	3	0	5	558	42	476	40	1	47	36
PHYSIOLOGY	709	3	10	26	564	42	505	17	28	59	19
ZOOLOGY	944	14	13	6	457	124	326	7	8	303	143
OTHER LIFE SCIENCES	1,143	12	42	9	795	82	674	39	22	167	96
PSYCHOLOGY	5,127	3	0	134	3,577	432	2,683	462	39	523	851
SOCIAL SCIENCES	6,194	96	176	279	3,361	1,509	1,345	507	37	1,358	887
AGRICULTURAL ECONOMICS	207	0	93	0	31	30	1	0	1	20	62
ANTHROPOLOGY	901	0	0	10	616	167	420	29	1	214	60
ECONOMICS (EXCEPT AGRICULTURAL)	1,234	0	22	128	351	293	37	21	0	394	339
GEOGRAPHY	329	0	2	21	165	108	21	36	7	73	61
HISTORY AND PHILOSOPHY OF SCIENCE	162	0	0	0	108	101	6	1	1	51	2
LINGUISTICS	727	90	0	35	407	170	63	174	1	143	51
POLITICAL SCIENCE	1,003	0	1	66	521	397	46	78	24	213	178
SOCIOLOGY	1,468	6	45	19	1,039	224	687	128	1	239	119
SOCIOLOGY AND ANTHROPOLOGY	163	0	13	0	123	19	64	40	1	11	15

TABLE C-10. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS SUPPORTED BY U.S. GOVERNMENT SOURCES, BY FIELD OF SCIENCE AND FEDERAL AGENCY, 1970 (CONTINUED)

AREA AND FIELD OF SCIENCE	TOTAL	AEC	DEPT. OF AGRI.	DEPT. OF DEFENSE	HEW TOTAL	HEW NDEA	HEW PHS (NIH) (NIMH)	HEW OTHER HEW	NASA	NSF	OTHER U.S. GOVT.
	PERCENT DISTRIBUTION										
TOTAL, ALL FIELDS OF SCIENCE............	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
ENGINEERING............................	24.3	29.6	5.4	55.6	10.5	15.0	8.5	12.5	52.2	23.4	33.3
AERONAUTICAL...........................	1.6	.1	-	5.1	.3	.8	.1	-	10.8	1.1	1.6
AGRICULTURAL...........................	.3	-	2.2	a/	.1	.3	a/	.1	.2	.2	1.0
CHEMICAL...............................	2.3	3.0	1.2	2.0	1.3	2.5	.8	1.8	2.6	3.4	2.8
CIVIL..................................	3.9	.7	.7	5.9	2.3	1.2	2.4	5.1	1.8	2.9	11.9
ELECTRICAL.............................	5.2	1.3	.5	14.4	2.0	3.5	1.5	1.3	15.2	6.2	4.0
ENGINEERING SCIENCE....................	1.1	1.4	.1	3.1	.4	.8	.3	.1	2.5	1.3	.7
INDUSTRIAL.............................	1.6	.2	.2	4.5	.7	1.3	.4	.9	1.3	1.3	4.0
MECHANICAL.............................	3.2	2.0	.3	8.0	1.5	2.4	1.0	2.5	10.3	3.1	3.7
METALLURGICAL AND MATERIALS............	2.0	8.0	-	6.5	.5	1.0	.4	-	2.7	1.8	1.0
MINING.................................	.2	.3	-	.2	.1	.1	-	.2	.3	.1	.6
NUCLEAR................................	1.0	10.4	-	.9	.2	.4	.1	-	.7	.5	.6
PETROLEUM..............................	.1	-	-	.2	a/	.1	a/	-	.3	.2	.2
OTHER ENGINEERING......................	1.8	2.3	.3	4.8	1.2	.6	1.5	.4	3.7	1.5	1.3
PHYSICAL SCIENCES......................	24.1	58.5	1.1	27.9	12.3	19.1	10.3	7.1	34.0	36.0	15.3
ASTRONOMY..............................	.6	-	-	.1	.1	.4	-	-	2.7	1.4	.2
ATMOSPHERIC SCIENCES...................	1.0	.8	.1	1.8	.2	.3	.2	.4	2.2	1.4	1.4
CHEMISTRY..............................	9.5	14.5	1.0	6.8	8.8	8.2	9.6	5.0	5.8	14.1	4.0
GEOSCIENCES............................	2.2	.6	-	2.8	.8	3.0	.1	.4	5.2	3.9	2.5
OCEANOGRAPHY...........................	1.1	.7	-	2.3	.3	.6	.1	.3	.5	1.8	1.9
PHYSICS................................	9.6	42.0	-	14.1	2.1	6.6	.4	1.0	17.6	13.3	5.3
MATHEMATICAL SCIENCES..................	5.8	1.5	.8	5.9	2.9	6.4	1.3	3.7	3.6	12.6	3.2
APPLIED MATHEMATICS....................	1.1	1.3	.4	2.5	.2	.4	.1	.4	.6	1.9	1.2
MATHEMATICS............................	3.9	.3	.2	2.0	1.7	5.2	.1	2.7	2.1	9.9	1.4
STATISTICS.............................	.9	-	.3	1.4	1.0	.8	1.1	.7	.9	.8	.6
LIFE SCIENCES..........................	23.3	6.7	76.9	2.8	37.7	20.2	47.3	17.5	6.4	14.5	19.9
AGRICULTURE............................	4.4	1.0	54.9	.9	3.4	4.1	3.4	1.4	.8	2.1	9.1
BIOCHEMISTRY...........................	4.2	2.6	3.8	.4	8.7	2.3	12.3	.7	1.1	1.7	1.0
BIOLOGY................................	4.5	1.4	3.3	.3	7.5	4.3	8.8	7.3	.8	4.1	2.3
BOTANY.................................	1.3	.4	6.2	.1	1.2	2.1	.9	.2	.5	1.6	1.5
MICROBIOLOGY...........................	2.2	.1	2.9	.3	4.4	1.6	5.9	1.6	.3	.8	1.3
PHARMACOLOGY...........................	1.3	.1	-	.1	2.9	.9	3.8	2.4	.1	.3	.6
PHYSIOLOGY.............................	1.4	.1	.9	.5	3.0	.9	4.1	1.0	1.4	.4	.3

PERCENT DISTRIBUTION

TOTAL, ALL FIELDS OF SCIENCE............	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
ENGINEERING..............................	24.3	29.6	5.4	55.6	10.5	15.0	8.5	12.5	52.2	23.4	33.3
AERONAUTICAL.............................	1.6	.1	-	5.1	.3	.8	.1	-	10.8	1.1	1.6
AGRICULTURAL.............................	.3	-	2.2	a/	.1	.3	a/	.1	.2	.2	1.0
CHEMICAL.................................	2.3	3.0	1.2	2.0	1.3	2.5	.8	1.8	2.6	3.4	2.8
CIVIL....................................	3.9	.7	.7	5.9	2.3	1.2	2.4	5.1	1.8	2.9	11.9
ELECTRICAL...............................	5.2	1.3	.5	14.4	2.0	3.5	1.5	1.3	15.2	6.2	4.0
ENGINEERING SCIENCE......................	1.1	1.4	.1	3.1	.4	.8	.3	.1	2.5	1.3	.7
INDUSTRIAL...............................	1.6	.2	.2	4.5	.7	1.3	.4	.9	1.3	1.3	4.0
MECHANICAL...............................	3.2	2.0	.3	8.0	1.5	2.4	1.0	2.5	10.3	3.1	3.7
METALLURGICAL AND MATERIALS..............	2.0	8.0	-	6.5	.5	1.0	.4	-	2.7	1.8	1.0
MINING...................................	.2	.3	-	.2	.1	.1	-	.2	.3	.1	.6
NUCLEAR..................................	1.0	10.4	-	.9	.2	.4	.1	-	.7	.5	.6
PETROLEUM................................	.1	-	-	.2	a/	.1	a/	-	.3	.2	.2
OTHER ENGINEERING........................	1.8	2.3	.3	4.8	1.2	.6	1.5	.4	3.7	1.5	1.3
PHYSICAL SCIENCES........................	24.1	58.5	1.1	27.9	12.3	19.1	10.3	7.1	34.0	36.0	15.3
ASTRONOMY................................	.6	-	-	.1	.1	.4	-	-	2.7	1.4	.2
ATMOSPHERIC SCIENCES.....................	1.0	.8	.1	1.8	.2	.3	.2	.4	2.2	1.4	1.4
CHEMISTRY................................	9.5	14.5	1.0	6.8	8.8	8.2	9.6	5.0	5.8	14.1	4.0
GEOSCIENCES..............................	2.2	.6	-	2.8	.8	3.0	.1	.4	5.2	3.9	2.5
OCEANOGRAPHY.............................	1.1	.7	-	2.3	.3	.6	.1	.3	.5	1.8	1.9
PHYSICS..................................	9.6	42.0	-	14.1	2.1	6.6	.4	1.0	17.6	13.3	5.3
MATHEMATICAL SCIENCES....................	5.8	1.5	.8	5.9	2.9	6.4	1.3	3.7	3.6	12.6	3.2
APPLIED MATHEMATICS......................	1.1	1.3	.4	2.5	.2	.4	.1	.4	.6	1.9	1.2
MATHEMATICS..............................	3.9	.3	.2	2.0	1.7	5.2	.1	2.7	2.1	9.9	1.4
STATISTICS...............................	.9	-	.3	1.4	1.0	.8	1.1	.7	.9	.8	.6
LIFE SCIENCES............................	23.3	6.7	76.9	2.8	37.7	20.2	47.3	17.5	6.4	14.5	19.9
AGRICULTURE..............................	4.4	1.0	54.9	.9	3.4	4.1	3.4	1.4	.8	2.1	9.1
BIOCHEMISTRY.............................	4.2	2.6	3.8	.4	8.7	2.3	12.3	.7	1.1	1.7	1.0
BIOLOGY..................................	4.5	1.4	3.3	.3	7.5	4.3	8.8	7.3	.8	4.1	2.3
BOTANY...................................	1.3	.4	6.2	.1	1.2	2.1	.9	.2	.5	1.6	1.5
MICROBIOLOGY.............................	2.2	.1	2.9	.3	4.4	1.6	5.9	1.6	.3	.8	1.3
PHARMACOLOGY.............................	1.3	.1	-	.1	2.9	.9	3.8	2.4	.1	.3	.6
PHYSIOLOGY...............................	1.4	.1	.9	.5	3.0	.9	4.1	1.0	1.4	.4	.3
ZOOLOGY..................................	1.9	.5	1.2	.1	2.4	2.5	2.6	.4	.4	2.2	2.3
OTHER LIFE SCIENCES......................	2.3	.4	3.8	.2	4.2	1.7	5.4	2.4	1.1	1.2	1.6
PSYCHOLOGY...............................	10.2	.1	-	2.5	18.9	8.7	21.7	28.2	2.0	3.7	13.9
SOCIAL SCIENCES..........................	12.3	3.5	15.8	5.2	17.7	30.5	10.9	31.0	1.9	9.7	14.4
AGRICULTURAL ECONOMICS...................	.4	-	8.3	-	.2	.6	a/	-	.1	.1	1.0
ANTHROPOLOGY.............................	1.8	-	-	.2	3.2	3.4	3.4	1.8	.1	1.5	1.0
ECONOMICS (EXCEPT AGRICULTURAL)..........	2.5	-	2.0	2.4	1.9	5.9	.3	1.3	-	2.8	5.5
GEOGRAPHY................................	.7	-	.2	.4	.9	2.2	.2	2.2	.4	.5	1.0
HISTORY AND PHILOSOPHY OF SCIENCE........	.3	-	-	-	.6	2.0	a/	.1	.1	.4	a/
LINGUISTICS..............................	1.4	3.3	-	.7	2.1	3.4	.5	10.6	.1	1.0	.8
POLITICAL SCIENCE........................	2.0	-	.1	1.2	2.7	8.0	.4	4.8	1.2	1.5	2.9
SOCIOLOGY................................	2.9	.2	4.0	.4	5.5	4.5	5.5	7.8	.1	1.7	1.9
SOCIOLOGY AND ANTHROPOLOGY...............	.3	-	1.2	-	.6	.4	.5	2.4	.1	.1	.2

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a/ Less than 0.05 percent.

TABLE C-10. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS SUPPORTED BY U.S. GOVERNMENT SOURCES, BY FIELD OF SCIENCE AND FEDERAL AGENCY, 1970 (CONTINUED)

					HEW						
AREA AND FIELD OF SCIENCE	TOTAL	AEC	DEPT. OF AGRI.	DEPT. OF DEFENSE	TOTAL	NDEA	PHS (NIH) (NIMH)	OTHER HEW	NASA	NSF	OTHER U.S. GOVT.
					PERCENT OF TOTAL						
TOTAL, ALL FIELDS OF SCIENCE	100.0	5.5	2.2	10.6	37.7	9.8	24.6	3.3	4.0	27.8	12.2
ENGINEERING	100.0	6.7	.5	24.3	16.4	6.1	8.6	1.7	8.5	26.8	16.8
AERONAUTICAL	100.0	.4	-	34.6	6.3	5.2	1.1	-	27.1	19.2	12.4
AGRICULTURAL	100.0	-	17.5	.7	15.3	10.2	3.6	1.5	2.2	19.0	45.3
CHEMICAL	100.0	7.2	1.1	9.5	21.4	10.6	8.3	2.5	4.5	41.4	14.9
CIVIL	100.0	1.0	.4	16.1	22.7	2.9	15.4	4.3	1.8	20.6	37.5
ELECTRICAL	100.0	1.3	.2	29.6	14.6	6.6	7.2	.8	11.6	33.1	9.5
ENGINEERING SCIENCE	100.0	7.1	.2	29.6	14.0	7.1	6.7	.2	8.9	32.7	7.5
INDUSTRIAL	100.0	.6	.2	29.0	15.3	8.0	5.6	1.8	3.1	22.2	29.5
MECHANICAL	100.0	3.4	.2	26.4	17.0	7.2	7.3	2.5	12.7	26.3	14.0
METALLURGICAL AND MATERIALS	100.0	21.5	-	33.8	9.3	4.8	4.5	-	5.2	24.5	5.8
MINING	100.0	9.0	-	14.1	12.8	9.0	-	3.8	6.4	12.8	44.9
NUCLEAR	100.0	57.8	-	9.8	7.4	3.8	3.6	-	2.6	14.5	7.8
PETROLEUM	100.0	-	-	17.5	14.3	7.9	6.3	-	9.5	38.1	20.6
OTHER ENGINEERING	100.0	6.9	.3	27.8	25.0	3.5	20.7	.8	8.1	23.0	8.9
PHYSICAL SCIENCES	100.0	13.4	.1	12.3	19.3	7.8	10.6	1.0	5.6	41.6	7.8
ASTRONOMY	100.0	-	-	2.1	6.5	6.5	-	-	18.5	68.5	4.5
ATMOSPHERIC SCIENCES	100.0	4.5	.2	20.0	8.6	3.1	4.1	1.4	8.8	40.3	17.7
CHEMISTRY	100.0	8.4	.2	7.6	35.0	8.5	24.8	1.7	2.4	41.2	5.1
GEOSCIENCES	100.0	1.5	-	13.1	14.3	13.0	.7	.5	9.1	48.4	13.5
OCEANOGRAPHY	100.0	3.4	-	21.3	8.8	5.1	2.8	.9	1.6	44.1	20.8
PHYSICS	100.0	23.9	-	15.5	8.1	6.7	1.0	.4	7.2	38.5	6.7
MATHEMATICAL SCIENCES	100.0	1.4	.3	10.8	18.4	10.8	5.5	2.1	2.4	59.9	6.7
APPLIED MATHEMATICS	100.0	6.2	.7	24.1	7.5	3.7	2.7	1.1	2.0	46.2	13.4
MATHEMATICS	100.0	.4	.1	5.4	16.2	13.1	.8	2.3	2.2	71.3	4.5
STATISTICS	100.0	-	.7	18.0	43.0	9.6	30.8	2.6	4.2	26.2	7.9
LIFE SCIENCES	100.0	1.6	7.3	1.3	61.0	8.5	50.0	2.5	1.1	17.3	10.4
AGRICULTURE	100.0	1.2	27.8	2.2	29.2	9.1	19.0	1.0	.7	13.5	25.3
BIOCHEMISTRY	100.0	3.4	2.0	.9	78.3	5.4	72.4	.6	1.0	11.5	2.9
BIOLOGY	100.0	1.7	1.6	.7	63.2	9.4	48.5	5.3	.7	25.6	6.4
BOTANY	100.0	1.9	11.0	.6	35.0	16.5	17.8	.6	1.4	35.8	14.3
MICROBIOLOGY	100.0	.4	2.9	1.6	77.2	7.4	67.4	2.4	.6	10.1	7.3
PHARMACOLOGY	100.0	.5	-	.8	85.8	6.5	73.2	6.2	.2	7.2	5.5
PHYSIOLOGY	100.0	.4	1.4	3.7	79.5	5.9	71.2	2.4	3.9	8.3	2.7
ZOOLOGY	100.0	1.5	1.4	.6	48.4	13.1	34.5	.7	.8	32.1	15.1
OTHER LIFE SCIENCES	100.0	1.0	3.7	.8	69.6	7.2	59.0	3.4	1.9	14.6	8.4
PSYCHOLOGY	100.0	.1	-	2.6	69.8	8.4	52.3	9.0	.8	10.2	16.6
SOCIAL SCIENCES	100.0	1.5	2.8	4.5	54.3	24.4	21.7	8.2	.6	21.9	14.3
AGRICULTURAL ECONOMICS	100.0	-	44.9	-	15.0	14.5	.5	-	.5	9.7	30.0
ANTHROPOLOGY	100.0	-	-	1.1	68.4	18.5	46.6	3.2	.1	23.8	6.7
ECONOMICS (EXCEPT AGRICULTURAL)	100.0	-	1.8	10.4	28.4	23.7	3.0	1.7	-	31.9	27.5
GEOGRAPHY	100.0	-	.6	6.4	50.2	32.8	6.4	10.9	2.1	22.2	18.5
HISTORY AND PHILOSOPHY OF SCIENCE	100.0	-	-	-	66.7	62.3	3.7	.6	.6	31.5	1.2
LINGUISTICS	100.0	12.4	-	4.8	56.0	23.4	8.7	23.9	.1	19.7	7.0
POLITICAL SCIENCE	100.0	-	.1	6.6	51.9	39.6	4.6	7.8	2.4	21.2	17.7
SOCIOLOGY	100.0	.4	3.1	1.3	70.8	15.3	46.8	8.7	.1	16.3	8.1
SOCIOLOGY AND ANTHROPOLOGY	100.0	-	8.0	-	75.5	11.7	39.3	24.5	.6	6.7	9.2

TABLE C-11. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS SUPPORTED BY OTHER U.S. SOURCES, BY FIELD OF SCIENCE, 1970

AREA AND FIELD OF SCIENCE	TOTAL	INSTITUTIONS & STATE & LOCAL GOVERNMENTS	PRIVATE NONPROFIT FOUNDATIONS	INDUSTRY	SELF-SUPPORT	OTHER
TOTAL, ALL FIELDS OF SCIENCE	93,267	53,795	4,297	3,888	28,516	2,771
ENGINEERING	18,332	8,424	754	2,214	6,446	494
AERONAUTICAL	666	365	24	75	195	7
AGRICULTURAL	275	202	13	4	42	14
CHEMICAL	1,870	907	142	345	451	25
CIVIL	2,737	1,275	107	124	1,128	103
ELECTRICAL	4,849	2,210	129	683	1,710	117
ENGINEERING SCIENCE	720	476	51	58	125	10
INDUSTRIAL	1,935	660	68	172	1,000	35
MECHANICAL	2,635	1,132	110	318	984	91
METALLURGICAL AND MATERIALS	768	341	61	213	141	12
MINING	166	85	11	37	30	3
NUCLEAR	447	244	3	37	130	33
PETROLEUM	114	63	5	19	23	4
OTHER ENGINEERING	1,150	464	30	129	487	40
PHYSICAL SCIENCES	17,141	12,946	684	593	2,423	495
ASTRONOMY	239	170	7	1	55	6
ATMOSPHERIC SCIENCES	194	116	8	7	41	22
CHEMISTRY	8,253	6,599	409	316	732	197
GEOSCIENCES	2,418	1,545	111	96	604	62
OCEANOGRAPHY	413	178	24	22	130	59
PHYSICS	5,624	4,338	125	151	861	149
MATHEMATICAL SCIENCES	9,059	6,526	153	240	2,023	117
APPLIED MATHEMATICS	1,239	687	21	153	342	36
MATHEMATICS	7,066	5,369	86	69	1,490	52
STATISTICS	754	470	46	18	191	29
LIFE SCIENCES	17,447	10,692	941	514	4,723	577
AGRICULTURE	4,065	2,269	349	298	928	221
BIOCHEMISTRY	1,262	789	133	19	279	42
BIOLOGY	4,134	2,554	115	39	1,334	92
BOTANY	1,629	1,206	48	34	316	25
MICROBIOLOGY	970	625	33	12	279	21
PHARMACOLOGY	722	475	55	53	122	17
PHYSIOLOGY	574	338	36	14	167	19
ZOOLOGY	2,775	1,772	109	30	816	48
OTHER LIFE SCIENCES	1,316	664	63	15	482	92
PSYCHOLOGY	7,497	4,303	242	98	2,492	362
SOCIAL SCIENCES	23,791	10,904	1,523	229	10,409	726
AGRICULTURAL ECONOMICS	565	365	46	5	141	8
ANTHROPOLOGY	2,481	1,004	133	17	1,265	62
ECONOMICS (EXCEPT AGRICULTURAL)	5,613	2,777	372	87	2,179	198
GEOGRAPHY	1,403	761	52	12	557	21
HISTORY AND PHILOSOPHY OF SCIENCE	694	417	42	3	211	21
LINGUISTICS	1,752	847	108	15	733	49
POLITICAL SCIENCE	6,382	2,458	469	53	3,254	148
SOCIOLOGY	4,334	2,049	285	36	1,768	196
SOCIOLOGY AND ANTHROPOLOGY	567	226	16	1	301	23

TABLE C-11. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS SUPPORTED BY OTHER U.S. SOURCES, BY FIELD OF SCIENCE, 1970
(CONTINUED)

AREA AND FIELD OF SCIENCE	TOTAL	INSTITUTIONS & STATE & LOCAL GOVERNMENTS	PRIVATE NONPROFIT FOUNDATIONS	INDUSTRY	SELF-SUPPORT	OTHER
			PERCENT DISTRIBUTION			
TOTAL, ALL FIELDS OF SCIENCE............	100.0	100.0	100.0	100.0	100.0	100.0
ENGINEERING............................	19.7	15.7	17.5	56.9	22.6	17.8
AERONAUTICAL...........................	.7	.7	.6	1.9	.7	.3
AGRICULTURAL...........................	.3	.4	.3	.1	.1	.5
CHEMICAL...............................	2.0	1.7	3.3	8.9	1.6	.9
CIVIL..................................	2.9	2.4	2.5	3.2	4.0	3.7
ELECTRICAL.............................	5.2	4.1	3.0	17.6	6.0	4.2
ENGINEERING SCIENCE....................	.8	.9	1.2	1.5	.4	.4
INDUSTRIAL.............................	2.1	1.2	1.6	4.4	3.5	1.3
MECHANICAL.............................	2.8	2.1	2.6	8.2	3.5	3.3
METALLURGICAL AND MATERIALS............	.8	.6	1.4	5.5	.5	.4
MINING.................................	.2	.2	.3	1.0	.1	.1
NUCLEAR................................	.5	.5	.1	1.0	.5	1.2
PETROLEUM..............................	.1	.1	.1	.5	.1	.1
OTHER ENGINEERING......................	1.2	.9	.7	3.3	1.7	1.4
PHYSICAL SCIENCES......................	18.4	24.1	15.9	15.3	8.5	17.9
ASTRONOMY..............................	.3	.3	.2	a/	.2	.2
ATMOSPHERIC SCIENCES...................	.2	.2	.2	.2	.1	.8
CHEMISTRY..............................	8.8	12.3	9.5	8.1	2.6	7.1
GEOSCIENCES............................	2.6	2.9	2.6	2.5	2.1	2.2
OCEANOGRAPHY...........................	.4	.3	.6	.6	.5	2.1
PHYSICS................................	6.0	8.1	2.9	3.9	3.0	5.4
MATHEMATICAL SCIENCES..................	9.7	12.1	3.6	6.2	7.1	4.2
APPLIED MATHEMATICS....................	1.3	1.3	.5	3.9	1.2	1.3
MATHEMATICS............................	7.6	10.0	2.0	1.8	5.2	1.9
STATISTICS.............................	.8	.9	1.1	.5	.7	1.0
LIFE SCIENCES..........................	18.7	19.9	21.9	13.2	16.6	20.8
AGRICULTURE............................	4.4	4.2	8.1	7.7	3.3	8.0
BIOCHEMISTRY...........................	1.4	1.5	3.1	.5	1.0	1.5
BIOLOGY................................	4.4	4.7	2.7	1.0	4.7	3.3
BOTANY.................................	1.7	2.2	1.1	.9	1.1	.9
MICROBIOLOGY...........................	1.0	1.2	.8	.3	1.0	.8
PHARMACOLOGY...........................	.8	.9	1.3	1.4	.4	.6
PHYSIOLOGY.............................	.6	.6	.8	.4	.6	.7
ZOOLOGY................................	3.0	3.3	2.5	.8	2.9	1.7
OTHER LIFE SCIENCES....................	1.4	1.2	1.5	.4	1.7	3.3
PSYCHOLOGY.............................	8.0	8.0	5.6	2.5	8.7	13.1
SOCIAL SCIENCES........................	25.5	20.3	35.4	5.9	36.5	26.2
AGRICULTURAL ECONOMICS.................	.6	.7	1.1	.1	.5	.3
ANTHROPOLOGY...........................	2.7	1.9	3.1	.4	4.4	2.2
ECONOMICS (EXCEPT AGRICULTURAL)........	6.0	5.2	8.7	2.2	7.6	7.1
GEOGRAPHY..............................	1.5	1.4	1.2	.3	2.0	.8
HISTORY AND PHILOSOPHY OF SCIENCE......	.7	.8	1.0	.1	.7	.8
LINGUISTICS............................	1.9	1.6	2.5	.4	2.6	1.8
POLITICAL SCIENCE......................	6.8	4.6	10.9	1.4	11.4	5.3
SOCIOLOGY..............................	4.6	3.8	6.6	.9	6.2	7.1
SOCIOLOGY AND ANTHROPOLOGY.............	.6	.4	.4	a/	1.1	.8

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a/ Less than 0.05 percent.

TABLE C-11. FULL-TIME GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS SUPPORTED BY OTHER U.S. SOURCES, BY FIELD OF SCIENCE, 1970
(CONTINUED)

AREA AND FIELD OF SCIENCE	TOTAL	INSTITUTIONS & STATE & LOCAL GOVERNMENTS	PRIVATE NONPROFIT FOUNDATIONS	INDUSTRY	SELF-SUPPORT	OTHER
			PERCENT OF TOTAL			
TOTAL, ALL FIELDS OF SCIENCE............	100.0	57.7	4.6	4.2	30.6	3.0
ENGINEERING............................	100.0	46.0	4.1	12.1	35.2	2.7
AERONAUTICAL...........................	100.0	54.8	3.6	11.3	29.3	1.1
AGRICULTURAL...........................	100.0	73.5	4.7	1.5	15.3	5.1
CHEMICAL...............................	100.0	48.5	7.6	18.4	24.1	1.3
CIVIL..................................	100.0	46.6	3.9	4.5	41.2	3.8
ELECTRICAL.............................	100.0	45.6	2.7	14.1	35.3	2.4
ENGINEERING SCIENCE....................	100.0	66.1	7.1	8.1	17.4	1.4
INDUSTRIAL.............................	100.0	34.1	3.5	8.9	51.7	1.8
MECHANICAL.............................	100.0	43.0	4.2	12.1	37.3	3.5
METALLURGICAL AND MATERIALS............	100.0	44.4	7.9	27.7	18.4	1.6
MINING.................................	100.0	51.2	6.6	22.3	18.1	1.8
NUCLEAR................................	100.0	54.6	.7	8.3	29.1	7.4
PETROLEUM..............................	100.0	55.3	4.4	16.7	20.2	3.5
OTHER ENGINEERING......................	100.0	40.3	2.6	11.2	42.3	3.5
PHYSICAL SCIENCES......................	100.0	75.5	4.0	3.5	14.1	2.9
ASTRONOMY..............................	100.0	71.1	2.9	.4	23.0	2.5
ATMOSPHERIC SCIENCES...................	100.0	59.8	4.1	3.6	21.1	11.3
CHEMISTRY..............................	100.0	80.0	5.0	3.8	8.9	2.4
GEOSCIENCES............................	100.0	63.9	4.6	4.0	25.0	2.6
OCEANOGRAPHY...........................	100.0	43.1	5.8	5.3	31.5	14.3
PHYSICS................................	100.0	77.1	2.2	2.7	15.3	2.6
MATHEMATICAL SCIENCES..................	100.0	72.0	1.7	2.6	22.3	1.3
APPLIED MATHEMATICS....................	100.0	55.4	1.7	12.3	27.6	2.9
MATHEMATICS............................	100.0	76.0	1.2	1.0	21.1	.7
STATISTICS.............................	100.0	62.3	6.1	2.4	25.3	3.8
LIFE SCIENCES..........................	100.0	61.3	5.4	2.9	27.1	3.3
AGRICULTURE............................	100.0	55.8	8.6	7.3	22.8	5.4
BIOCHEMISTRY...........................	100.0	62.5	10.5	1.5	22.1	3.3
BIOLOGY................................	100.0	61.8	2.8	.9	32.3	2.2
BOTANY.................................	100.0	74.0	2.9	2.1	19.4	1.5
MICROBIOLOGY...........................	100.0	64.4	3.4	1.2	28.8	2.2
PHARMACOLOGY...........................	100.0	65.8	7.6	7.3	16.9	2.4
PHYSIOLOGY.............................	100.0	58.9	6.3	2.4	29.1	3.3
ZOOLOGY................................	100.0	63.9	3.9	1.1	29.4	1.7
OTHER LIFE SCIENCES....................	100.0	50.5	4.8	1.1	36.6	7.0
PSYCHOLOGY.............................	100.0	57.4	3.2	1.3	33.2	4.8
SOCIAL SCIENCES........................	100.0	45.8	6.4	1.0	43.8	3.1
AGRICULTURAL ECONOMICS.................	100.0	64.6	8.1	.9	25.0	1.4
ANTHROPOLOGY...........................	100.0	40.5	5.4	.7	51.0	2.5
ECONOMICS (EXCEPT AGRICULTURAL)........	100.0	49.5	6.6	1.5	38.8	3.5
GEOGRAPHY..............................	100.0	54.2	3.7	.9	39.7	1.5
HISTORY AND PHILOSOPHY OF SCIENCE......	100.0	60.1	6.1	.4	30.4	3.0
LINGUISTICS............................	100.0	48.3	6.2	.9	41.8	2.8
POLITICAL SCIENCE......................	100.0	38.5	7.3	.8	51.0	2.3
SOCIOLOGY..............................	100.0	47.3	6.6	.8	40.8	4.5
SOCIOLOGY AND ANTHROPOLOGY.............	100.0	39.9	2.8	.2	53.1	4.1

TABLE C-12. FULL-TIME FACULTY AND POSTDOCTORALS IN DOCTORATE DEPARTMENTS, BY FIELD OF SCIENCE, 1970

AREA AND FIELD OF SCIENCE	TOTAL FACULTY		GRADUATE FACULTY		TOTAL POSTDOCTORALS		RECENT POSTDOCTORALS	
	NUMBER	PERCENT DISTRIBUTION	NUMBER	PERCENT OF TOTAL	NUMBER	PERCENT DISTRIBUTION	NUMBER	PERCENT OF TOTAL
TOTAL, ALL FIELDS OF SCIENCE	58,022	100.0	49,332	85.0	8,940	100.0	6,079	68.0
ENGINEERING	11,830	20.4	9,985	84.4	791	8.8	478	60.4
AERONAUTICAL	543	.9	467	86.0	39	.4	22	56.4
AGRICULTURAL	406	.7	264	65.0	14	.2	8	57.1
CHEMICAL	1,031	1.8	951	92.2	102	1.1	63	61.8
CIVIL	1,745	3.0	1,478	84.7	80	.9	40	50.0
ELECTRICAL	2,708	4.7	2,275	84.0	134	1.5	89	66.4
ENGINEERING SCIENCE	645	1.1	568	88.1	73	.8	26	35.6
INDUSTRIAL	772	1.3	628	81.3	19	.2	8	42.1
MECHANICAL	2,123	3.7	1,733	81.6	82	.9	52	63.4
METALLURGICAL AND MATERIALS	622	1.1	583	93.7	125	1.4	93	74.4
MINING	98	.2	86	87.8	3	a/	3	100.0
NUCLEAR	237	.4	230	97.0	21	.2	7	33.3
PETROLEUM	68	.1	58	85.3	1	a/	1	100.0
OTHER ENGINEERING	832	1.4	664	79.8	98	1.1	66	67.3
PHYSICAL SCIENCES	10,925	18.8	9,785	89.6	3,730	41.7	2,835	76.0
ASTRONOMY	211	.4	204	96.7	62	.7	39	62.9
ATMOSPHERIC SCIENCES	219	.4	201	91.8	50	.6	32	64.0
CHEMISTRY	4,196	7.2	3,799	90.5	2,182	24.4	1,762	80.8
GEOSCIENCES	1,370	2.4	1,237	90.3	197	2.2	113	57.4
OCEANOGRAPHY	415	.7	360	86.7	34	.4	17	50.0
PHYSICS	4,514	7.8	3,984	88.3	1,205	13.5	872	72.4
MATHEMATICAL SCIENCES	6,035	10.4	4,892	81.1	255	2.9	166	65.1
APPLIED MATHEMATICS	393	.7	342	87.0	36	.4	24	66.7
MATHEMATICS	5,139	8.9	4,100	79.8	180	2.0	117	65.0
STATISTICS	503	.9	450	89.5	39	.4	25	64.1
LIFE SCIENCES	15,430	26.6	12,755	82.7	3,667	41.0	2,322	63.3
AGRICULTURE	4,119	7.1	3,022	73.4	356	4.0	237	66.6
BIOCHEMISTRY	1,639	2.8	1,498	91.4	947	10.6	721	76.1
BIOLOGY	2,616	4.5	2,263	86.5	856	9.6	462	54.0
BOTANY	1,208	2.1	1,044	86.4	136	1.5	82	60.3
MICROBIOLOGY	967	1.7	876	90.6	297	3.3	179	60.3
PHARMACOLOGY	967	1.7	792	81.9	276	3.1	147	53.3
PHYSIOLOGY	864	1.5	765	88.5	281	3.1	185	65.8
ZOOLOGY	1,236	2.1	1,096	88.7	204	2.3	123	60.3
OTHER LIFE SCIENCES	1,814	3.1	1,399	77.1	314	3.5	186	59.2
PSYCHOLOGY	3,657	6.3	3,330	91.1	272	3.0	180	66.2
SOCIAL SCIENCES	10,145	17.5	8,585	84.6	225	2.5	98	43.6
AGRICULTURAL ECONOMICS	434	.7	327	75.3	8	.1	3	37.5
ANTHROPOLOGY	908	1.6	784	86.3	37	.4	9	24.3
ECONOMICS (EXCEPT AGRICULTURAL)	2,655	4.6	2,165	81.5	54	.6	20	37.0
GEOGRAPHY	511	.9	450	88.1	14	.2	12	85.7
HISTORY AND PHILOSOPHY OF SCIENCE	339	.6	314	92.6	17	.2	4	23.5
LINGUISTICS	687	1.2	579	84.3	24	.3	12	50.0
POLITICAL SCIENCE	2,353	4.1	2,094	89.0	20	.2	9	45.0
SOCIOLOGY	1,978	3.4	1,668	84.3	50	.6	29	58.0
SOCIOLOGY AND ANTHROPOLOGY	280	.5	204	72.9	1	a/	0	-

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a/ Less than 0.05 percent.

TABLE C-13. GRADUATE STUDENTS IN DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY AREA OF SCIENCE, CITIZENSHIP, AND ENROLLMENT STATUS, 1967-70

AREA OF SCIENCE	NUMBER				PERCENT CHANGE		
	1967 a/	1968	1969	1970	1967-68	1968-69	1969-70
			ALL GRADUATE STUDENTS				
TOTAL	148,210	152,200	155,511	152,849	2.7	2.2	-1.7
ENGINEERING	43,783	43,481	44,212	43,161	-.7	1.7	-2.4
PHYSICAL SCIENCES	32,095	32,456	31,789	30,505	1.1	-2.1	-4.0
MATHEMATICAL SCIENCES	13,849	13,996	13,667	13,449	1.1	-2.4	-1.6
LIFE SCIENCES	21,469	22,327	22,859	23,114	4.0	2.4	1.1
PSYCHOLOGY	10,382	11,420	12,035	12,231	10.0	5.4	1.6
SOCIAL SCIENCES	26,632	28,520	30,949	30,389	7.1	8.5	-1.8
U. S. CITIZENS	126,215	128,064	128,785	124,907	1.5	.6	-3.0
ENGINEERING	35,074	33,732	33,082	31,212	-3.8	-1.9	-5.7
PHYSICAL SCIENCES	27,546	27,553	26,260	24,871	b/	-4.7	-5.3
MATHEMATICAL SCIENCES	12,326	12,241	11,679	11,386	-.7	-4.6	-2.5
LIFE SCIENCES	18,490	19,246	19,661	19,888	4.1	2.2	1.2
PSYCHOLOGY	10,002	11,012	11,550	11,780	10.1	4.9	2.0
SOCIAL SCIENCES	22,777	24,280	26,553	25,770	6.6	9.4	-2.9
FOREIGN STUDENTS	21,995	24,136	26,726	27,942	9.7	10.7	4.5
ENGINEERING	8,709	9,749	11,130	11,949	11.9	14.2	7.4
PHYSICAL SCIENCES	4,549	4,903	5,529	5,634	7.8	12.8	1.9
MATHEMATICAL SCIENCES	1,523	1,755	1,988	2,063	15.2	13.3	3.8
LIFE SCIENCES	2,979	3,081	3,198	3,226	3.4	3.8	.9
PSYCHOLOGY	380	408	485	451	7.4	18.9	-7.0
SOCIAL SCIENCES	3,855	4,240	4,396	4,619	10.0	3.7	5.1
			FULL-TIME STUDENTS				
TOTAL	115,048	117,992	119,659	118,593	2.6	1.4	-.9
ENGINEERING	26,431	26,042	26,390	26,947	-1.5	1.3	2.1
PHYSICAL SCIENCES	28,411	28,816	27,904	26,782	1.4	-3.2	-4.0
MATHEMATICAL SCIENCES	10,401	10,493	10,351	10,288	.9	-1.4	-.6
LIFE SCIENCES	19,501	20,097	20,439	20,488	3.1	1.7	.2
PSYCHOLOGY	9,051	9,909	10,498	10,638	9.5	5.9	1.3
SOCIAL SCIENCES	21,253	22,635	24,077	23,450	6.5	6.4	-2.6
U. S. CITIZENS	95,739	96,534	95,876	94,108	.8	-.7	-1.8
ENGINEERING	19,301	17,878	17,071	17,118	-7.4	-4.5	.3
PHYSICAL SCIENCES	24,098	24,098	22,602	21,440	b/	-6.2	-5.1
MATHEMATICAL SCIENCES	9,040	8,906	8,517	8,400	-1.5	-4.4	-1.4
LIFE SCIENCES	16,709	17,169	17,399	17,473	2.8	1.3	.4
PSYCHOLOGY	8,714	9,562	10,059	10,224	9.7	5.2	1.6
SOCIAL SCIENCES	17,877	18,921	20,228	19,453	5.8	6.9	-3.8
FOREIGN STUDENTS	19,309	21,458	23,783	24,485	11.1	10.8	3.0
ENGINEERING	7,130	8,164	9,319	9,829	14.5	14.1	5.5
PHYSICAL SCIENCES	4,313	4,718	5,302	5,342	9.4	12.4	.8
MATHEMATICAL SCIENCES	1,361	1,587	1,834	1,888	16.6	15.6	2.9
LIFE SCIENCES	2,792	2,928	3,040	3,015	4.9	3.8	-.8
PSYCHOLOGY	337	347	439	414	3.0	26.5	-5.7
SOCIAL SCIENCES	3,376	3,714	3,849	3,997	10.0	3.6	3.8
			PART-TIME STUDENTS				
TOTAL	33,162	34,208	35,852	34,256	3.2	4.8	-4.5

			FULL-TIME STUDENTS				
TOTAL	115,048	117,992	119,659	118,593	2.6	1.4	-.9
ENGINEERING	26,431	26,042	26,390	26,947	-1.5	1.3	2.1
PHYSICAL SCIENCES	28,411	28,816	27,904	26,782	1.4	-3.2	-4.0
MATHEMATICAL SCIENCES	10,401	10,493	10,351	10,288	.9	-1.4	-.6
LIFE SCIENCES	19,501	20,097	20,439	20,488	3.1	1.7	.2
PSYCHOLOGY	[illegible],051	9,909	10,498	10,638	9.5	5.9	1.3
SOCIAL SCIENCES	21,253	22,635	24,077	23,450	6.5	6.4	-2.6
U. S. CITIZENS	95,739	96,534	95,876	94,108	.8	-.7	-1.8
ENGINEERING	19,301	17,878	17,071	17,118	-7.4	-4.5	.3
PHYSICAL SCIENCES	24,098	24,098	22,602	21,440	b/	-6.2	-5.1
MATHEMATICAL SCIENCES	9,040	8,906	8,517	8,400	-1.5	-4.4	-1.4
LIFE SCIENCES	16,709	17,169	17,399	17,473	2.8	1.3	.4
PSYCHOLOGY	8,714	9,562	10,059	10,224	9.7	5.2	1.6
SOCIAL SCIENCES	17,877	18,921	20,228	19,453	5.8	6.9	-3.8
FOREIGN STUDENTS	19,309	21,458	23,783	24,485	11.1	10.8	3.0
ENGINEERING	7,130	8,164	9,319	9,829	14.5	14.1	5.5
PHYSICAL SCIENCES	4,313	4,718	5,302	5,342	9.4	12.4	.8
MATHEMATICAL SCIENCES	1,361	1,587	1,834	1,888	16.6	15.6	2.9
LIFE SCIENCES	2,792	2,928	3,040	3,015	4.9	3.8	-.8
PSYCHOLOGY	337	347	439	414	3.0	26.5	-5.7
SOCIAL SCIENCES	3,376	3,714	3,849	3,997	10.0	3.6	3.8
			PART-TIME STUDENTS				
TOTAL	33,162	34,208	35,852	34,256	3.2	4.8	-4.5
ENGINEERING	17,352	17,439	17,822	16,214	.5	2.2	-9.0
PHYSICAL SCIENCES	3,684	3,640	3,885	3,723	-1.2	6.7	-4.2
MATHEMATICAL SCIENCES	3,448	3,503	3,316	3,161	1.6	-5.3	-4.7
LIFE SCIENCES	1,968	2,230	2,420	2,626	13.3	8.5	8.5
PSYCHOLOGY	1,331	1,511	1,537	1,593	13.5	1.7	3.6
SOCIAL SCIENCES	5,379	5,885	6,872	6,939	9.4	16.8	1.0
U. S. CITIZENS	30,476	31,530	32,909	30,799	3.5	4.4	-6.4
ENGINEERING	15,773	15,854	16,011	14,094	.5	1.0	-12.0
PHYSICAL SCIENCES	3,448	3,455	3,658	3,431	.2	5.9	-6.2
MATHEMATICAL SCIENCES	3,286	3,335	3,162	2,986	1.5	-5.2	-5.[illegible]
LIFE SCIENCES	1,781	2,077	2,262	2,415	16.6	8.9	6.8
PSYCHOLOGY	1,288	1,450	1,491	1,556	12.6	2.8	4.4
SOCIAL SCIENCES	4,900	5,359	6,325	6,317	9.4	18.0	-.1
FOREIGN STUDENTS	2,686	2,678	2,943	3,457	-.3	9.9	17.5
ENGINEERING	1,579	1,585	1,811	2,120	.4	14.3	17.1
PHYSICAL SCIENCES	236	185	227	292	-21.6	22.7	28.6
MATHEMATICAL SCIENCES	162	168	154	175	3.7	-8.3	13.6
LIFE SCIENCES	187	153	158	211	-18.2	3.3	33.5
PSYCHOLOGY	43	61	46	37	c/	-24.6	c/
SOCIAL SCIENCES	479	526	547	622	9.8	4.0	13.7

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a/ Reporting of part-time enrollment data by a number of doctorate departments in 1967 appeared inconsistent with rates of change for 1967-68 shown in National Science Foundation, NSF 70-40, op. cit., p. 3. Therefore, estimates for 1967 were derived by applying the established rates to 1968 data.

b/ Less than 0.05 percent.

c/ Percent change is not shown when base is 50 or less.

TABLE C-14A. FULL-TIME GRADUATE STUDENTS IN SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1967-70

SOURCE OF MAJOR SUPPORT	NUMBER				PERCENT CHANGE		
	1967	1968	1969	1970	1967-68	1968-69	1969-70
ALL SOURCES OF MAJOR SUPPORT, TOTAL.......	115,048	117,992	119,659	118,593	2.6	1.4	-0.9
U.S. SOURCES, TOTAL......................	113,222	116,360	117,841	116,689	2.8	1.3	-1.0
U.S. GOVERNMENT........................	47,909	47,002	44,184	41,399	-1.9	-6.0	-6.3
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS................	39,535	41,844	43,273	44,373	5.8	3.4	2.5
SELF-SUPPORT...........................	16,211	18,607	21,399	22,297	14.8	15.0	4.2
ALL OTHER U.S. SOURCES.................	9,567	8,907	8,985	8,620	-6.9	.9	-4.1
FOREIGN SOURCES, TOTAL..................	1,826	1,632	1,818	1,904	-10.6	11.4	4.7
U.S. CITIZENS	95,739	96,534	95,876	94,108	.8	-.7	-1.8
U.S. SOURCES, TOTAL......................	95,706	96,508	95,842	94,063	.8	-.7	-1.9
U.S. GOVERNMENT........................	42,793	41,540	38,348	35,400	-2.9	-7.7	-7.7
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS................	31,932	33,161	33,601	34,513	3.8	1.3	2.7
SELF-SUPPORT...........................	13,447	15,023	17,068	17,678	11.7	13.6	3.6
ALL OTHER U.S. SOURCES.................	7,534	6,784	6,825	6,472	-10.0	.6	-5.2
FOREIGN SOURCES, TOTAL..................	33	26	34	45	a/	a/	a/
FOREIGN STUDENTS.........................	19,309	21,458	23,783	24,485	11.1	10.8	3.0
U.S. SOURCES, TOTAL......................	17,516	19,852	21,999	22,626	13.3	10.8	2.9
U.S. GOVERNMENT........................	5,116	5,462	5,836	5,999	6.8	6.8	2.8
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS................	7,603	8,683	9,672	9,860	14.2	11.4	1.9
SELF-SUPPORT...........................	2,764	3,584	4,331	4,619	29.7	20.8	6.6
ALL OTHER U.S. SOURCES.................	2,033	2,123	2,160	2,148	4.4	1.7	-.6
FOREIGN SOURCES, TOTAL..................	1,793	1,606	1,784	1,859	-10.4	11.1	4.2
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.......	37,266	37,833	35,598	32,784	1.5	-5.9	-7.9
U.S. SOURCES, TOTAL......................	36,223	36,779	34,547	31,680	1.5	-6.1	-8.3
U.S. GOVERNMENT........................	27,165	27,128	24,342	21,726	-.1	-10.3	-10.7
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS................	5,041	5,770	6,257	6,166	14.5	8.4	-1.5
SELF-SUPPORT...........................	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES.................	4,017	3,881	3,948	3,788	-3.4	1.7	-4.1
FOREIGN SOURCES, TOTAL..................	1,043	1,054	1,051	1,104	1.1	-.3	5.0
U.S. CITIZENS	33,251	33,575	31,152	28,282	1.0	-7.2	-9.2
U.S. SOURCES, TOTAL......................	33,218	33,549	31,120	28,237	1.0	-7.2	-9.3
U.S. GOVERNMENT........................	26,536	26,487	23,730	21,087	-.2	-10.4	-11.1
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS................	3,751	4,221	4,523	4,494	12.5	7.2	-.6
SELF-SUPPORT...........................	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES.................	2,931	2,841	2,867	2,656	-3.1	.9	-7.4
FOREIGN SOURCES, TOTAL..................	33	26	32	45	a/	a/	a/
FOREIGN STUDENTS.........................	4,015	4,258	4,446	4,502	6.1	4.4	1.3
U.S. SOURCES, TOTAL......................	3,005	3,230	3,427	3,443	7.5	6.1	.5
U.S. GOVERNMENT........................	629	641	612	639	1.9	-4.5	4.4
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS................	1,290	1,549	1,734	1,672	20.1	11.9	-3.6
SELF-SUPPORT...........................	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES.................	1,086	1,040	1,081	1,132	-4.2	3.9	4.7
FOREIGN SOURCES, TOTAL..................	1,010	1,028	1,019	1,059	1.8	-.9	3.9
RESEARCH ASSISTANTSHIPS, TOTAL............	26,375	26,056	25,846	25,753	-1.2	-.8	-.4
U.S. SOURCES, TOTAL......................	26,333	26,010	25,800	25,708	-1.2	-.8	-.4
U.S. GOVERNMENT........................	18,116	17,463	17,107	16,895	-3.6	-2.0	-1.2
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS................	6,394	6,657	6,780	7,078	4.1	1.8	4.4
SELF-SUPPORT...........................	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES.................	1,823	1,890	1,913	1,735	3.7	1.2	-9.3

FOREIGN SOURCES, TOTAL	1,793	1,808	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FELLOWSHIPS AND TRAINEESHIPS, TOTAL	37,266	37,833	35,598	32,784	1.5	-5.9	-7.9
U.S. SOURCES, TOTAL	36,223	36,779	34,547	31,680	1.5	-6.1	-8.3
U.S. GOVERNMENT	27,165	27,128	24,342	21,726	-.1	-10.3	-10.7
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	5,041	5,770	6,257	6,166	14.5	8.4	-1.5
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	4,017	3,881	3,948	3,788	-3.4	1.7	-4.1
FOREIGN SOURCES, TOTAL	1,043	1,054	1,051	1,104	1.1	-.3	5.0
U.S. CITIZENS	33,251	33,575	31,152	28,282	1.0	-7.2	-9.2
U.S. SOURCES, TOTAL	33,218	33,549	31,120	28,237	1.0	-7.2	-9.3
U.S. GOVERNMENT	26,536	26,487	23,730	21,087	-.2	-10.4	-11.1
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	3,751	4,221	4,523	4,494	12.5	7.2	-.6
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	2,931	2,841	2,867	2,656	-3.1	.9	-7.4
FOREIGN SOURCES, TOTAL	33	26	32	45	a/	a/	a/
FOREIGN STUDENTS	4,015	4,258	4,446	4,502	6.1	4.4	1.3
U.S. SOURCES, TOTAL	3,005	3,230	3,427	3,443	7.5	6.1	.5
U.S. GOVERNMENT	629	641	612	639	1.9	-4.5	4.4
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	1,290	1,549	1,734	1,672	20.1	11.9	-3.6
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	1,086	1,040	1,081	1,132	-4.2	3.9	4.7
FOREIGN SOURCES, TOTAL	1,010	1,028	1,019	1,059	1.8	-.9	3.9
RESEARCH ASSISTANTSHIPS, TOTAL	26,375	26,056	25,846	25,753	-1.2	-.8	-.4
U.S. SOURCES, TOTAL	26,333	26,010	25,800	25,708	-1.2	-.8	-.4
U.S. GOVERNMENT	18,116	17,463	17,107	16,895	-3.6	-2.0	-1.2
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	6,394	6,657	6,780	7,078	4.1	1.8	4.4
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	1,823	1,890	1,913	1,735	3.7	1.2	-9.3
FOREIGN SOURCES, TOTAL	42	46	46	45	a/	a/	a/
U.S. CITIZENS	19,964	19,088	18,238	18,077	-4.4	-4.5	-.9
U.S. SOURCES, TOTAL	19,964	19,088	18,236	18,077	-4.4	-4.5	-.9
U.S. GOVERNMENT	13,891	12,905	12,167	11,844	-7.1	-5.7	-2.7
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	4,688	4,790	4,727	5,010	2.2	-1.3	6.0
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	1,385	1,393	1,342	1,223	.6	-3.7	-8.9
FOREIGN SOURCES, TOTAL	0	0	2	0	---	---	a/
FOREIGN STUDENTS	6,411	6,968	7,608	7,676	8.7	9.2	.9
U.S. SOURCES, TOTAL	6,369	6,922	7,564	7,631	8.7	9.3	.9
U.S. GOVERNMENT	4,225	4,558	4,940	5,051	7.9	8.4	2.2
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	1,706	1,867	2,053	2,068	9.4	10.0	.7
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	438	497	571	512	13.5	14.9	-10.3
FOREIGN SOURCES, TOTAL	42	46	44	45	a/	a/	a/

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a/ Percent change is not shown when base is 50 or less.

TABLE C-14A. FULL-TIME GRADUATE STUDENTS IN SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1967-70 (CONTINUED)

SOURCE OF MAJOR SUPPORT	NUMBER				PERCENT CHANGE		
	1967	1968	1969	1970	1967-68	1968-69	1969-70
TEACHING ASSISTANTSHIPS, TOTAL	26,406	27,693	28,668	29,868	4.9	3.5	4.2
U.S. SOURCES, TOTAL	26,406	27,693	28,668	29,868	4.9	3.5	4.2
U.S. GOVERNMENT	282	212	273	310	-24.8	28.8	13.6
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	26,005	27,338	28,300	29,334	5.1	3.5	3.7
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	119	143	95	224	20.2	-33.6	135.8
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
U.S. CITIZENS	22,084	22,669	22,980	23,915	2.6	1.4	4.1
U.S. SOURCES, TOTAL	22,084	22,669	22,980	23,915	2.6	1.4	4.1
U.S. GOVERNMENT	229	166	201	224	-27.5	21.1	11.4
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	21,759	22,382	22,705	23,502	2.9	1.4	3.5
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	96	121	74	189	26.0	-38.8	155.4
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
FOREIGN STUDENTS	4,322	5,024	5,688	5,953	16.2	13.2	4.7
U.S. SOURCES, TOTAL	4,322	5,024	5,688	5,953	16.2	13.2	4.7
U.S. GOVERNMENT	53	46	72	86	-13.2	a/	19.4
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	4,246	4,956	5,595	5,832	16.7	12.9	4.2
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	23	22	21	35	a/	a/	a/
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
OTHER TYPES OF MAJOR SUPPORT, TOTAL	25,001	26,410	29,547	30,188	5.6	11.9	2.2
U.S. SOURCES, TOTAL	24,260	25,878	28,826	29,433	6.7	11.4	2.1
U.S. GOVERNMENT	2,346	2,199	2,462	2,468	-6.3	12.0	.2
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	2,095	2,079	1,936	1,795	-.8	-6.9	-7.3
SELF-SUPPORT	16,211	18,607	21,399	22,297	14.8	15.0	4.2
ALL OTHER U.S. SOURCES	3,608	2,993	3,029	2,873	-17.0	1.2	-5.2
FOREIGN SOURCES, TOTAL	741	532	721	755	-28.2	35.5	4.7
U.S. CITIZENS	20,440	21,202	23,506	23,834	3.7	10.9	1.4
U.S. SOURCES, TOTAL	20,440	21,202	23,506	23,834	3.7	10.9	1.4
U.S. GOVERNMENT	2,137	1,982	2,250	2,245	-7.3	13.5	-.2
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	1,734	1,768	1,646	1,507	2.0	-6.9	-8.4
SELF-SUPPORT	13,447	15,023	17,068	17,678	11.7	13.6	3.6
ALL OTHER U.S. SOURCES	3,122	2,429	2,542	2,404	-22.2	4.7	-5.4
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
FOREIGN STUDENTS	4,561	5,208	6,041	6,354	14.2	16.0	5.2
U.S. SOURCES, TOTAL	3,820	4,676	5,320	5,599	22.4	13.8	5.2
U.S. GOVERNMENT	209	217	212	223	3.8	-2.3	5.2
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	361	311	290	288	-13.9	-6.8	-.7
SELF-SUPPORT	2,764	3,584	4,331	4,619	29.7	20.8	6.6
ALL OTHER U.S. SOURCES	486	564	487	469	16.0	-13.7	-3.7
FOREIGN SOURCES, TOTAL	741	532	721	755	-28.2	35.5	4.7

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a/ Percent change is not shown when base is 50 or less.

TABLE C-14R. FULL-TIME GRADUATE STUDENTS IN ENGINEERING DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1967-70

	NUMBER				PERCENT CHANGE		
SOURCE OF MAJOR SUPPORT	1967	1968	1969	1970	1967-68	1968-69	1969-70
ALL SOURCES OF MAJOR SUPPORT, TOTAL	26.431	26.042	26,390	26,947	-1.5	1.3	2.1
U.S. SOURCES, TOTAL	25,675	25.398	25,580	26.143	-1.1	.7	2.2
U.S. GOVERNMENT	11.965	11,209	10,577	10,397	-6.3	-5.6	-1.7
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	6.348	6,544	6,897	7,251	3.1	5.4	5.1
SELF-SUPPORT	3,796	4.089	4.616	5,545	7.7	12.9	20.1
ALL OTHER U.S. SOURCES	3.566	3.556	3.490	2.950	-.3	-1.9	-15.5
FOREIGN SOURCES, TOTAL	756	644	810	804	-14.8	25.8	-.7
U.S. CITIZENS	19.301	17.878	17,071	17,118	-7.4	-4.5	.3
U.S. SOURCES, TOTAL	19,293	17,873	17.067	17,105	-7.4	-4.5	.2
U.S. GOVERNMENT	9,900	8,881	7.981	7,594	-10.3	-10.1	-4.8
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	4.068	3,892	3.874	4,160	-4.3	-.5	7.4
SELF-SUPPORT	2,477	2.393	2.544	3,105	-3.4	6.3	22.1
ALL OTHER U.S. SOURCES	2.848	2,707	2.668	2,746	-5.0	-1.4	-15.8
FOREIGN SOURCES, TOTAL	8	5	4	13	a/	a/	a/
FOREIGN STUDENTS	7.130	8.164	9.319	9,829	14.5	14.1	5.5
U.S. SOURCES, TOTAL	6,382	7,525	8,513	9,038	17.9	13.1	6.2
U.S. GOVERNMENT	2,065	2.328	2.596	2,803	12.7	11.5	8.0
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	2,280	2,652	3,023	3,091	16.3	14.0	2.2
SELF-SUPPORT	1,319	1,696	2,072	2,440	28.6	22.2	17.8
ALL OTHER U.S. SOURCES	718	849	822	704	18.2	-3.2	-14.4
FOREIGN SOURCES, TOTAL	748	639	806	791	-14.6	26.1	-1.9
FELLOWSHIPS AND TRAINEESHIPS, TOTAL	8.243	7,728	6,917	6,357	-6.2	-10.5	-8.1
U.S. SOURCES, TOTAL	7,896	7,385	6.573	6,012	-6.5	-11.0	-8.5
U.S. GOVERNMENT	5,685	5,151	4,275	3,831	-9.4	-17.0	-10.4
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	855	892	978	1,060	4.3	9.6	8.4
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	1.356	1,342	1.320	1,121	-1.0	-1.6	-15.1
FOREIGN SOURCES, TOTAL	347	343	344	345	-1.2	.3	.3
U.S. CITIZENS	7,173	6,607	5.690	5,155	-7.9	-13.9	-9.4
U.S. SOURCES, TOTAL	7,165	6,602	5,686	5,142	-7.9	-13.9	-9.6
U.S. GOVERNMENT	5,557	5,000	4,110	3,658	-10.0	-17.8	-11.0
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	523	497	520	596	-5.0	4.6	14.6
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	1,085	1,105	1,056	888	1.8	-4.4	-15.9
FOREIGN SOURCES, TOTAL	8	5	4	13	a/	a/	a/
FOREIGN STUDENTS	1.070	1.121	1,227	1,202	4.8	9.5	-2.0
U.S. SOURCES, TOTAL	731	783	887	870	7.1	13.3	-1.9
U.S. GOVERNMENT	128	151	165	173	18.0	9.3	4.8
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	332	395	458	464	19.0	15.9	1.3
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	271	237	264	233	-12.5	11.4	-11.7
FOREIGN SOURCES, TOTAL	339	338	340	332	-.3	.6	-2.4

SELF-SUPPORT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ALL OTHER U.S. SOURCES	718	849	822	704	18.2	-3.2	-14.4
FOREIGN SOURCES, TOTAL	748	639	806	791	-14.6	26.1	-1.9
FELLOWSHIPS AND TRAINEESHIPS, TOTAL	8,243	7,728	6,917	6,357	-6.2	-10.5	-8.1
U.S. SOURCES, TOTAL	7,896	7,385	6,573	6,012	-6.5	-11.0	-8.5
U.S. GOVERNMENT	5,685	5,151	4,275	3,831	-9.4	-17.0	-10.4
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	855	892	978	1,060	4.3	9.6	8.4
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	1,356	1,342	1,320	1,121	-1.0	-1.6	-15.1
FOREIGN SOURCES, TOTAL	347	343	344	345	-1.2	.3	.3
U.S. CITIZENS	7,173	6,607	5,690	5,155	-7.9	-13.9	-9.4
U.S. SOURCES, TOTAL	7,165	6,602	5,686	5,142	-7.9	-13.9	-9.6
U.S. GOVERNMENT	5,557	5,000	4,110	3,658	-10.0	-17.8	-11.0
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	523	497	520	596	-5.0	4.6	14.6
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	1,085	1,105	1,056	888	1.8	-4.4	-15.9
FOREIGN SOURCES, TOTAL	8	5	4	13	a/	a/	a/
FOREIGN STUDENTS	1,070	1,121	1,227	1,202	4.8	9.5	-2.0
U.S. SOURCES, TOTAL	731	783	887	870	7.1	13.3	-1.9
U.S. GOVERNMENT	128	151	165	173	18.0	9.3	4.8
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	332	395	458	464	19.0	15.9	1.3
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	271	237	264	233	-12.5	11.4	-11.7
FOREIGN SOURCES, TOTAL	339	338	340	332	-.3	.6	-2.4
RESEARCH ASSISTANTSHIPS, TOTAL	7,668	7,735	7,731	8,081	.9	-.1	4.5
U.S. SOURCES, TOTAL	7,663	7,726	7,719	8,060	.8	-.1	4.4
U.S. GOVERNMENT	5,191	5,081	5,066	5,325	-2.1	-.3	5.1
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	1,822	1,913	1,969	2,134	5.0	2.9	8.4
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	650	732	684	601	12.6	-6.6	-12.1
FOREIGN SOURCES, TOTAL	5	9	12	21	a/	a/	a/
U.S. CITIZENS	4,795	4,457	4,115	4,289	-7.0	-7.7	4.2
U.S. SOURCES, TOTAL	4,795	4,457	4,115	4,289	-7.0	-7.7	4.2
U.S. GOVERNMENT	3,340	3,003	2,752	2,813	-10.1	-8.4	2.2
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	1,014	1,010	973	1,133	-.4	-3.7	16.4
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	441	444	390	343	.7	-12.2	-12.1
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
FOREIGN STUDENTS	2,873	3,278	3,616	3,792	14.1	10.3	4.9
U.S. SOURCES, TOTAL	2,868	3,269	3,604	3,771	14.0	10.2	4.6
U.S. GOVERNMENT	1,851	2,078	2,314	2,512	12.3	11.4	8.6
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	808	903	996	1,001	11.8	10.3	.5
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	209	288	294	258	37.8	2.1	-12.2
FOREIGN SOURCES, TOTAL	5	9	12	21	a/	a/	a/

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a/ Percent change is not shown when base is 50 or less.

TABLE C-14B. FULL-TIME GRADUATE STUDENTS IN ENGINEERING DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1967-70 (CONTINUED)

SOURCE OF MAJOR SUPPORT	NUMBER				PERCENT CHANGE		
	1967	1968	1969	1970	1967-68	1968-69	1969-70
TEACHING ASSISTANTSHIPS, TOTAL	3,369	3,439	3,636	3,777	2.1	5.7	3.9
U.S. SOURCES, TOTAL	3,369	3,439	3,636	3,777	2.1	5.7	3.9
U.S. GOVERNMENT	60	37	68	61	-38.3	a/	-10.3
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	3,293	3,370	3,557	3,704	2.3	5.5	4.1
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	16	32	11	12	a/	a/	a/
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
U.S. CITIZENS	2,301	2,166	2,110	2,230	-5.9	-2.6	5.7
U.S. SOURCES, TOTAL	2,301	2,166	2,110	2,230	-5.9	-2.6	5.7
U.S. GOVERNMENT	37	24	26	28	a/	a/	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	2,255	2,119	2,078	2,192	-6.0	-1.9	5.5
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	9	23	6	10	a/	a/	a/
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
FOREIGN STUDENTS	1,068	1,273	1,526	1,547	19.2	19.9	1.4
U.S. SOURCES, TOTAL	1,068	1,273	1,526	1,547	19.2	19.9	1.4
U.S. GOVERNMENT	23	13	42	33	a/	a/	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	1,038	1,251	1,479	1,512	20.5	18.2	2.2
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	7	9	5	2	a/	a/	a/
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
OTHER TYPES OF MAJOR SUPPORT, TOTAL	7,151	7,140	8,106	8,732	-.2	13.5	7.7
U.S. SOURCES, TOTAL	6,747	6,848	7,652	8,294	1.5	11.7	8.4
U.S. GOVERNMENT	1,029	940	1,168	1,180	-8.6	24.3	1.0
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	378	369	393	353	-2.4	6.5	-10.2
SELF-SUPPORT	3,796	4,089	4,616	5,545	7.7	12.9	20.1
ALL OTHER U.S. SOURCES	1,544	1,450	1,475	1,216	-6.1	1.7	-17.6
FOREIGN SOURCES, TOTAL	404	292	454	438	-27.7	55.5	-3.5
U.S. CITIZENS	5,032	4,648	5,156	5,444	-7.6	10.9	5.6
U.S. SOURCES, TOTAL	5,032	4,648	5,156	5,444	-7.6	10.9	5.6
U.S. GOVERNMENT	966	854	1,093	1,095	-11.6	28.0	.2
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	276	266	303	239	-3.6	13.9	-21.1
SELF-SUPPORT	2,477	2,393	2,544	3,105	-3.4	6.3	22.1
ALL OTHER U.S. SOURCES	1,313	1,135	1,216	1,005	-13.6	7.1	-17.4
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
FOREIGN STUDENTS	2,119	2,492	2,950	3,288	17.6	18.4	11.5
U.S. SOURCES, TOTAL	1,715	2,200	2,496	2,850	28.3	13.5	14.2
U.S. GOVERNMENT	63	86	75	85	36.5	-12.8	13.3
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	102	103	90	114	1.0	-12.6	26.7
SELF-SUPPORT	1,319	1,696	2,072	2,440	28.6	22.2	17.8
ALL OTHER U.S. SOURCES	231	315	259	211	36.4	-17.8	-18.5
FOREIGN SOURCES, TOTAL	404	292	454	438	-27.7	55.5	-3.5

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a/ Percent change is not shown when base is 50 or less.

TABLE C-14C. FULL-TIME GRADUATE STUDENTS IN PHYSICAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1967-70

	NUMBER				PERCENT CHANGE		
SOURCE OF MAJOR SUPPORT	1967	1968	1969	1970	1967-68	1968-69	1969-70
ALL SOURCES OF MAJOR SUPPORT, TOTAL	28,411	28,816	27,904	26,782	1.4	-3.2	-4.0
U.S. SOURCES, TOTAL	28,153	28,601	27,653	26,546	1.6	-3.3	-4.0
U.S. GOVERNMENT	14,018	13,519	12,301	11,186	-3.6	-9.0	-9.1
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	10,855	11,482	11,627	11,766	5.8	1.3	1.2
SELF-SUPPORT	1,670	1,925	2,174	2,003	15.3	12.9	-7.9
ALL OTHER U.S. SOURCES	1,610	1,675	1,551	1,591	4.0	-7.4	2.6
FOREIGN SOURCES, TOTAL	258	215	251	236	-16.7	16.7	-6.0
U.S. CITIZENS	24,098	24,098	22,602	21,440	b/	-6.2	-5.1
U.S. SOURCES, TOTAL	24,089	24,092	22,588	21,431	b/	-6.2	-5.1
U.S. GOVERNMENT	12,525	11,968	10,580	9,523	-4.4	-11.6	-10.0
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	8,823	9,160	9,070	9,069	3.8	-1.0	b/
SELF-SUPPORT	1,417	1,585	1,733	1,613	11.9	9.3	-6.9
ALL OTHER U.S. SOURCES	1,324	1,379	1,205	1,226	4.2	-12.6	1.7
FOREIGN SOURCES, TOTAL	9	6	14	9	a/	a/	a/
FOREIGN STUDENTS	4,313	4,718	5,302	5,342	9.4	12.4	.8
U.S. SOURCES, TOTAL	4,064	4,509	5,065	5,115	10.9	12.3	1.0
U.S. GOVERNMENT	1,493	1,551	1,721	1,663	3.9	11.0	-3.4
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	2,032	2,322	2,557	2,697	14.3	10.1	5.5
SELF-SUPPORT	253	340	441	390	34.4	29.7	-11.6
ALL OTHER U.S. SOURCES	286	296	346	365	3.5	16.9	5.5
FOREIGN SOURCES, TOTAL	249	209	237	227	-16.1	13.4	-4.2
FELLOWSHIPS AND TRAINEESHIPS, TOTAL	7,747	7,605	6,523	5,579	-1.8	-14.2	-14.5
U.S. SOURCES, TOTAL	7,569	7,442	6,347	5,417	-1.7	-14.7	-14.7
U.S. GOVERNMENT	5,776	5,543	4,483	3,655	-4.0	-19.1	-18.5
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	1,139	1,209	1,180	1,165	6.1	-2.4	-1.3
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	654	690	684	597	5.5	-.9	-12.7
FOREIGN SOURCES, TOTAL	178	163	176	162	-8.4	8.0	-8.0
U.S. CITIZENS	7,098	6,903	5,794	4,888	-2.7	-16.1	-15.6
U.S. SOURCES, TOTAL	7,089	6,897	5,780	4,879	-2.7	-16.2	-15.6
U.S. GOVERNMENT	5,701	5,480	4,433	3,617	-3.9	-19.1	-18.4
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	867	876	834	829	1.0	-4.8	-.6
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	521	541	513	433	3.8	-5.2	-15.6
FOREIGN SOURCES, TOTAL	9	6	14	9	a/	a/	a/
FOREIGN STUDENTS	649	702	729	691	8.2	3.8	-5.2
U.S. SOURCES, TOTAL	480	545	567	538	13.5	4.0	-5.1
U.S. GOVERNMENT	75	63	50	38	-16.0	-20.6	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	272	333	346	336	22.4	3.9	-2.9
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	133	149	171	164	12.0	14.8	-4.1

FELLOWSHIPS AND TRAINEESHIPS, TOTAL	7,747	7,605	6,523	5,579	-1.8	-14.2	-14.5
U.S. SOURCES, TOTAL	7,569	7,442	6,347	5,417	-1.7	-14.7	-14.7
U.S. GOVERNMENT	5,776	5,543	4,483	3,655	-4.0	-19.1	-18.5
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	1,139	1,209	1,180	1,165	6.1	-2.4	-1.3
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	654	690	684	597	5.5	-.9	-12.7
FOREIGN SOURCES, TOTAL	178	163	176	162	-8.4	8.0	-8.0
U.S. CITIZENS	7,098	6,903	5,794	4,888	-2.7	-16.1	-15.6
U.S. SOURCES, TOTAL	7,089	6,897	5,780	4,879	-2.7	-16.2	-15.6
U.S. GOVERNMENT	5,701	5,480	4,433	3,617	-3.9	-19.1	-18.4
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	867	876	834	829	1.0	-4.8	-.6
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	521	541	513	433	3.8	-5.2	-15.6
FOREIGN SOURCES, TOTAL	9	6	14	9	a/	a/	a/
FOREIGN STUDENTS	649	702	729	691	8.2	3.8	-5.2
U.S. SOURCES, TOTAL	480	545	567	538	13.5	4.0	-5.1
U.S. GOVERNMENT	75	63	50	38	-16.0	-20.6	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	272	333	346	336	22.4	3.9	-2.9
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	133	149	171	164	12.0	14.8	-4.1
FOREIGN SOURCES, TOTAL	169	157	162	153	-7.1	3.2	-5.6
RESEARCH ASSISTANTSHIPS, TOTAL	8,929	8,719	8,820	8,376	-2.4	1.2	-5.0
U.S. SOURCES, TOTAL	8,925	8,708	8,811	8,370	-2.4	1.2	-5.0
U.S. GOVERNMENT	7,763	7,497	7,408	7,038	-3.4	-1.2	-5.0
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	648	703	877	792	8.5	24.8	-9.7
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	514	508	526	540	-1.2	3.5	2.7
FOREIGN SOURCES, TOTAL	4	11	9	6	a/	a/	a/
U.S. CITIZENS	7,306	7,048	6,862	6,503	-3.5	-2.6	-5.2
U.S. SOURCES, TOTAL	7,306	7,048	6,862	6,503	-3.5	-2.6	-5.2
U.S. GOVERNMENT	6,375	6,050	5,778	5,466	-5.1	-4.5	-5.4
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	499	566	662	608	13.4	17.0	-8.2
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	432	432	422	429	b/	-2.3	1.7
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
FOREIGN STUDENTS	1,623	1,671	1,958	1,873	3.0	17.2	-4.3
U.S. SOURCES, TOTAL	1,619	1,660	1,949	1,867	2.5	17.4	-4.2
U.S. GOVERNMENT	1,388	1,447	1,630	1,572	4.3	12.6	-3.6
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	149	137	215	184	-8.1	56.9	-14.4
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	82	76	104	111	-7.3	36.8	6.7
FOREIGN SOURCES, TOTAL	4	11	9	6	a/	a/	a/

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a/ Percent change is not shown when base is 50 or less.
b/ Less than 0.05 percent.

TABLE C-14C. FULL-TIME GRADUATE STUDENTS IN PHYSICAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1967-70 (CONTINUED)

	NUMBER				PERCENT CHANGE		
SOURCE OF MAJOR SUPPORT	1967	1968	1969	1970	1967-68	1968-69	1969-70
TEACHING ASSISTANTSHIPS, TOTAL	9,018	9,475	9,423	9,788	5.1	-0.5	3.9
U.S. SOURCES, TOTAL	9,018	9,475	9,423	9,788	5.1	-.5	3.9
U.S. GOVERNMENT	97	89	59	105	-8.2	-33.7	78.0
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	8,867	9,351	9,357	9,593	5.5	.1	2.5
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	54	35	7	90	-35.2	a/	a/
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
U.S. CITIZENS	7,411	7,618	7,459	7,606	2.8	-2.1	2.0
U.S. SOURCES, TOTAL	7,411	7,618	7,459	7,606	2.8	-2.1	2.0
U.S. GOVERNMENT	83	71	48	74	-14.5	-32.4	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	7,284	7,520	7,407	7,458	3.2	-1.5	.7
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	4	27	4	74	a/	a/	a/
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
FOREIGN STUDENTS	1,607	1,857	1,964	2,182	15.6	5.8	11.1
U.S. SOURCES, TOTAL	1,607	1,857	1,964	2,182	15.6	5.8	11.1
U.S. GOVERNMENT	14	18	11	31	a/	a/	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	1,583	1,831	1,950	2,135	15.7	6.5	9.5
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	10	8	3	16	a/	a/	a/
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
OTHER TYPES OF MAJOR SUPPORT, TOTAL	2,717	3,017	3,138	3,039	11.0	4.0	-3.2
U.S. SOURCES, TOTAL	2,641	2,976	3,072	2,971	12.7	3.2	-3.3
U.S. GOVERNMENT	382	390	351	388	2.1	-10.0	10.5
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	201	219	213	216	9.0	-2.7	1.4
SELF-SUPPORT	1,670	1,925	2,174	2,003	15.3	12.9	-7.9
ALL OTHER U.S. SOURCES	388	442	334	364	13.9	-24.4	9.0
FOREIGN SOURCES, TOTAL	76	41	66	68	-46.1	a/	3.0
U.S. CITIZENS	2,283	2,529	2,487	2,443	10.8	-1.7	-1.8
U.S. SOURCES, TOTAL	2,283	2,529	2,487	2,443	10.8	-1.7	-1.8
U.S. GOVERNMENT	366	367	321	366	.3	-12.5	14.0
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	173	198	167	174	14.5	-15.7	4.2
SELF-SUPPORT	1,417	1,585	1,733	1,613	11.9	9.3	-6.9
ALL OTHER U.S. SOURCES	327	379	266	290	15.9	-29.8	9.0
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
FOREIGN STUDENTS	434	488	651	596	12.4	33.4	-8.4
U.S. SOURCES, TOTAL	358	447	585	528	24.9	30.9	-9.7
U.S. GOVERNMENT	16	23	30	22	a/	a/	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	28	21	46	42	a/	a/	a/
SELF-SUPPORT	253	340	441	390	34.4	29.7	-11.6
ALL OTHER U.S. SOURCES	61	63	68	74	3.3	7.9	8.8
FOREIGN SOURCES, TOTAL	76	1	66	68	-46.1	a/	3.0

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a/ Percent change is not shown when base is 50 or less.

TABLE C-14D. FULL-TIME GRADUATE STUDENTS IN MATHEMATICAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1967-70

SOURCE OF MAJOR SUPPORT	NUMBER 1967	1968	1969	1970	PERCENT CHANGE 1967-68	1968-69	1969-70
ALL SOURCES OF MAJOR SUPPORT, TOTAL.......	10,401	10,493	10,351	10,288	0.9	-1.4	-0.6
U.S. SOURCES, TOTAL......................	10,309	10,398	10,262	10,175	.9	-1.3	-.8
U.S. GOVERNMENT........................	3,147	3,073	2,823	2,417	-2.4	-8.1	-14.4
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS...............	4,995	5,250	5,320	5,721	5.1	1.3	7.5
SELF-SUPPORT...........................	1,709	1,764	1,768	1,689	3.2	.2	-4.5
ALL OTHER U.S. SOURCES.................	458	311	351	348	-32.1	12.9	-.9
FOREIGN SOURCES, TOTAL..................	92	95	89	113	3.3	-6.3	27.0
U.S. CITIZENS	9,040	8,906	8,517	8,400	-1.5	-4.4	-1.4
U.S. SOURCES, TOTAL......................	9,040	8,906	8,513	8,399	-1.5	-4.4	-1.3
U.S. GOVERNMENT........................	2,935	2,837	2,566	2,140	-3.3	-9.6	-16.6
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS...............	4,192	4,325	4,213	4,593	3.2	-2.6	9.0
SELF-SUPPORT...........................	1,513	1,481	1,471	1,397	-2.1	-.7	-5.0
ALL OTHER U.S. SOURCES.................	400	263	263	269	-34.3	b/	2.3
FOREIGN SOURCES, TOTAL..................	0	0	4	1	---	---	a/
FOREIGN STUDENTS........................	1,361	1,587	1,834	1,888	16.6	15.6	2.9
U.S. SOURCES, TOTAL......................	1,269	1,492	1,749	1,776	17.6	17.2	1.5
U.S. GOVERNMENT........................	212	236	257	277	11.3	8.9	7.8
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS...............	803	925	1,107	1,128	15.2	19.7	1.9
SELF-SUPPORT...........................	196	283	297	292	44.4	4.9	-1.7
ALL OTHER U.S. SOURCES.................	58	48	88	79	-17.2	a/	-10.2
FOREIGN SOURCES, TOTAL..................	92	95	85	112	3.3	-10.5	31.8
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.......	2,701	2,791	2,450	2,117	3.3	-12.2	-13.6
U.S. SOURCES, TOTAL......................	2,647	2,728	2,388	2,037	3.1	-12.5	-14.7
U.S. GOVERNMENT........................	2,181	2,157	1,772	1,470	-1.1	-17.8	-17.0
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS...............	323	432	466	429	33.7	7.9	-7.9
SELF-SUPPORT...........................	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES.................	143	139	150	138	-2.8	7.9	-8.0
FOREIGN SOURCES, TOTAL..................	54	63	62	80	16.7	-1.6	29.0
U.S. CITIZENS	2,500	2,535	2,141	1,855	1.4	15.5	-13.4
U.S. SOURCES, TOTAL......................	2,500	2,535	2,137	1,854	1.4	-15.7	-13.2
U.S. GOVERNMENT........................	2,158	2,145	1,753	1,459	-.6	-18.3	-16.8
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS...............	223	278	284	293	24.7	2.2	3.2
SELF-SUPPORT...........................	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES.................	119	112	100	102	-5.9	-10.7	2.0
FOREIGN SOURCES, TOTAL..................	0	0	4	1	---	---	a/
FOREIGN STUDENTS........................	201	256	309	262	27.4	20.7	-15.2
U.S. SOURCES, TOTAL......................	147	193	251	183	31.3	30.1	-27.1
U.S. GOVERNMENT........................	23	12	19	11	a/	a/	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS...............	100	154	182	136	54.0	18.2	-25.3
SELF-SUPPORT...........................	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES.................	24	27	50	36	a/	a/	a/
FOREIGN SOURCES, TOTAL..................	54	63	58	79	16.7	-7.9	36.2
RESEARCH ASSISTANTSHIPS, TOTAL............	969	896	947	992	-7.5	5.7	4.8
U.S. SOURCES, TOTAL......................	967	896	947	991	-7.3	5.7	4.6
U.S. GOVERNMENT........................	679	624	673	667	-8.1	7.9	-.9
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	266	247	246	305	-7.1	-.4	24.0

FELLOWSHIPS AND TRAINEESHIPS, TOTAL	2,701	2,791	2,450	2,117	3.3	-12.2	-13.6
U.S. SOURCES, TOTAL	2,647	2,728	2,388	2,037	3.1	-12.5	-14.7
U.S. GOVERNMENT	2,181	2,157	1,772	1,470	-1.1	-17.8	-17.0
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	323	432	466	429	33.7	7.9	-7.9
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	143	139	150	138	-2.8	7.9	-8.0
FOREIGN SOURCES, TOTAL	54	63	62	80	16.7	-1.6	29.0
U.S. CITIZENS	2,500	2,535	2,141	1,855	1.4	15.5	-13.4
U.S. SOURCES, TOTAL	2,500	2,535	2,137	1,854	1.4	-15.7	-13.2
U.S. GOVERNMENT	2,158	2,145	1,753	1,459	-.6	-18.3	-16.8
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	223	278	284	293	24.7	2.2	3.2
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	119	112	100	102	-5.9	-10.7	2.0
FOREIGN SOURCES, TOTAL	0	0	4	1	---	---	a/
FOREIGN STUDENTS	201	256	309	262	27.4	20.7	-15.2
U.S. SOURCES, TOTAL	147	193	251	183	31.3	30.1	-27.1
U.S. GOVERNMENT	23	12	19	11	a/	a/	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	100	154	182	136	54.0	18.2	-25.3
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	24	27	50	36	a/	a/	a/
FOREIGN SOURCES, TOTAL	54	63	58	79	16.7	-7.9	36.2
RESEARCH ASSISTANTSHIPS, TOTAL	969	896	947	992	-7.5	5.7	4.8
U.S. SOURCES, TOTAL	967	896	947	991	-7.3	5.7	4.6
U.S. GOVERNMENT	679	624	673	667	-8.1	7.9	-.9
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	266	247	246	305	-7.1	-.4	24.0
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	22	25	28	19	a/	a/	a/
FOREIGN SOURCES, TOTAL	2	0	0	1	a/	---	---
U.S. CITIZENS	744	640	657	653	-14.0	2.7	-.6
U.S. SOURCES, TOTAL	744	640	657	653	-14.0	2.7	-.6
U.S. GOVERNMENT	512	428	457	425	-16.4	6.8	-7.0
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	217	191	183	216	-12.0	-4.2	18.0
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	15	21	17	12	a/	a/	a/
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
FOREIGN STUDENTS	225	256	290	339	13.8	13.3	16.9
U.S. SOURCES, TOTAL	223	256	290	338	14.8	13.3	16.6
U.S. GOVERNMENT	167	196	216	242	17.4	10.2	12.0
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	49	56	63	89	a/	12.5	41.3
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	7	4	11	7	a/	a/	a/
FOREIGN SOURCES, TOTAL	2	0	0	1	a/	---	---

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a/ Percent change is not shown when base is 50 or less.
b/ Less than 0.05 percent.

TABLE C-14D. FULL-TIME GRADUATE STUDENTS IN MATHEMATICAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1967-70 (CONTINUED)

SOURCE OF MAJOR SUPPORT	NUMBER				PERCENT CHANGE		
	1967	1968	1969	1970	1967-68	1968-69	1969-70
TEACHING ASSISTANTSHIPS, TOTAL............	4,213	4,389	4,377	4,758	4.2	-0.3	8.7
U.S. SOURCES, TOTAL....................	4,213	4,389	4,377	4,758	4.2	-.3	8.7
U.S. GOVERNMENT....................	36	19	40	30	a/	a/	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS..............	4,170	4,349	4,332	4,705	4.3	-.4	8.6
SELF-SUPPORT....................	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES..............	7	21	5	23	a/	a/	a/
FOREIGN SOURCES, TOTAL..................	0	0	0	0	---	---	---
U.S. CITIZENS	3,599	3,696	3,546	3,881	2.7	-4.1	9.4
U.S. SOURCES, TOTAL....................	3,599	3,696	3,546	3,881	2.7	-4.1	9.4
U.S. GOVERNMENT....................	35	13	38	22	a/	a/	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS..............	3,560	3,662	3,507	3,845	2.9	-4.2	9.6
SELF-SUPPORT....................	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES..............	4	21	1	14	a/	a/	a/
FOREIGN SOURCES, TOTAL..................	0	0	0	0	---	---	---
FOREIGN STUDENTS........................	614	693	831	877	12.9	19.9	5.5
U.S. SOURCES, TOTAL....................	614	693	831	877	12.9	19.9	5.5
U.S. GOVERNMENT....................	1	6	2	8	a/	a/	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS..............	610	687	825	860	12.6	20.1	4.2
SELF-SUPPORT....................	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES..............	3	0	4	9	a/	---	a/
FOREIGN SOURCES, TOTAL..................	0	0	0	0	---	---	---
OTHER TYPES OF MAJOR SUPPORT, TOTAL.......	2,518	2,417	2,577	2,421	-4.0	6.6	-6.1
U.S. SOURCES, TOTAL....................	2,482	2,385	2,550	2,389	-3.9	6.9	-6.3
U.S. GOVERNMENT....................	251	273	338	250	8.8	23.8	-26.0
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS..............	236	222	276	282	-5.9	24.3	2.2
SELF-SUPPORT....................	1,709	1,764	1,768	1,689	3.2	.2	-4.5
ALL OTHER U.S. SOURCES..............	286	126	168	168	-55.9	33.3	b/
FOREIGN SOURCES, TOTAL..................	36	32	27	32	a/	a/	a/
U.S. CITIZENS	2,197	2,035	2,173	2,011	-7.4	6.8	-7.5
U.S. SOURCES, TOTAL....................	2,197	2,035	2,173	2,011	-7.4	6.8	-7.5
U.S. GOVERNMENT....................	230	251	318	234	9.1	26.7	-26.4
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS..............	192	194	239	239	1.0	23.2	b/
SELF-SUPPORT....................	1,513	1,481	1,471	1,397	-2.1	-.7	-5.0
ALL OTHER U.S. SOURCES..............	262	109	145	141	-58.4	33.0	-2.8
FOREIGN SOURCES, TOTAL..................	0	0	0	0	---	---	---
FOREIGN STUDENTS........................	321	382	404	410	19.0	5.8	1.5
U.S. SOURCES, TOTAL....................	285	350	377	378	22.8	7.7	.3
U.S. GOVERNMENT....................	21	22	20	16	a/	a/	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS..............	44	28	37	43	a/	a/	a/
SELF-SUPPORT....................	196	283	297	292	44.4	4.9	-1.7
ALL OTHER U.S. SOURCES..............	24	17	23	27	a/	a/	a/
FOREIGN SOURCES, TOTAL..................	36	32	27	32	a/	a/	a/

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a/ Percent change is not shown when base is 50 or less.
b/ Less than 0.05 percent.

141

TABLE C-14E. FULL-TIME GRADUATE STUDENTS IN LIFE SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1967-70

SOURCE OF MAJOR SUPPORT	NUMBER 1967	1968	1969	1970	PERCENT CHANGE 1967-68	1968-69	1969-70
ALL SOURCES OF MAJOR SUPPORT, TOTAL.......	19,501	20,097	20,439	20,488	3.1	1.7	.2
U.S. SOURCES, TOTAL....................	19,194	19,842	20,194	20,167	3.4	1.8	-.1
U.S. GOVERNMENT........................	8,933	8,973	8,524	7,923	.4	-5.0	-7.1
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS..............	6,801	7,082	7,431	7,586	4.1	4.9	2.1
SELF-SUPPORT...........................	2,105	2,625	2,941	3,469	24.7	12.0	18.0
ALL OTHER U.S. SOURCES.................	1,355	1,162	1,298	1,189	-14.2	11.7	-8.4
FOREIGN SOURCES, TOTAL.................	307	255	245	321	-16.9	-3.9	31
U.S. CITIZENS	16,709	17,169	17,399	17,473	2.8	1.3	.4
U.S. SOURCES, TOTAL....................	16,704	17,164	17,393	17,455	2.8	1.3	.4
U.S. GOVERNMENT........................	8,029	8,069	7,687	7,137	.5	-4.7	-7.2
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS..............	5,827	5,969	6,260	6,417	2.4	4.9	2.5
SELF-SUPPORT...........................	1,881	2,338	2,531	3,091	24.3	8.3	22.1
ALL OTHER U.S. SOURCES.................	967	788	915	810	-18.5	16.1	-11.5
FOREIGN SOURCES, TOTAL.................	5	5	6	18	a/	a/	a/
FOREIGN STUDENTS.......................	2,792	2,928	3,040	3,015	4.9	3.8	-.8
U.S. SOURCES, TOTAL....................	2,490	2,678	2,801	2,712	7.6	4.6	-3.2
U.S. GOVERNMENT........................	904	904	837	786	b/	-7.4	-6.1
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS..............	974	1,113	1,171	1,169	14.3	5.2	-.2
SELF-SUPPORT...........................	224	287	410	378	28.1	42.9	-7.8
ALL OTHER U.S. SOURCES.................	388	374	383	379	-3.6	2.4	-1.0
FOREIGN SOURCES, TOTAL.................	302	250	239	303	-17.2	-4.4	26.8
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.......	6,993	7,377	7,291	6,761	5.5	-1.2	-7.3
U.S. SOURCES, TOTAL....................	6,846	7,227	7,152	6,571	5.6	-1.0	-8.1
U.S. GOVERNMENT........................	5,737	6,025	5,898	5,267	5.0	-2.1	-10.7
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS..............	665	750	807	842	12.8	7.6	4.3
SELF-SUPPORT...........................	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES.................	444	452	447	462	1.8	-1.1	3.4
FOREIGN SOURCES, TOTAL.................	147	150	139	190	2.0	-7.3	36.7
U.S. CITIZENS	6,325	6,664	6,580	6,015	5.4	-1.3	-8.6
U.S. SOURCES, TOTAL....................	6,320	6,659	6,576	5,997	5.4	-1.2	-8.8
U.S. GOVERNMENT........................	5,554	5,833	5,682	5,068	5.0	-2.6	-10.8
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS..............	525	580	655	671	10.5	12.9	2.4
SELF-SUPPORT...........................	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES.................	241	246	239	258	2.1	-2.8	7.9
FOREIGN SOURCES, TOTAL.................	5	5	4	18	a/	a/	a/
FOREIGN STUDENTS.......................	668	713	711	746	6.7	-.3	4.9
U.S. SOURCES, TOTAL....................	526	568	576	574	8.0	1.4	-.3
U.S. GOVERNMENT........................	183	192	216	199	4.9	12.5	-7.9
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS..............	140	170	152	171	21.4	-10.6	12.5
SELF-SUPPORT...........................	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES.................	203	206	208	204	1.5	1.0	-1.9
FOREIGN SOURCES, TOTAL.................	142	145	135	172	2.1	-6.9	27.4

INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	974	1,113	1,171	1,169	14.3	5.2	-.2
SELF-SUPPORT	224	287	410	378	28.1	42.9	-7.8
ALL OTHER U.S. SOURCES	388	374	383	379	-3.6	2.4	-1.0
FOREIGN SOURCES, TOTAL	302	250	239	303	-17.2	-4.4	26.8
FELLOWSHIPS AND TRAINEESHIPS, TOTAL	6,993	7,377	7,291	6,761	5.5	-1.2	-7.3
U.S. SOURCES, TOTAL	6,846	7,227	7,152	6,571	5.6	-1.0	-8.1
U.S. GOVERNMENT	5,737	6,025	5,898	5,267	5.0	-2.1	-10.7
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	665	750	807	842	12.8	7.6	4.3
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	444	452	447	462	1.8	-1.1	3.4
FOREIGN SOURCES, TOTAL	147	150	139	190	2.0	-7.3	36.7
U.S. CITIZENS	6,325	6,664	6,580	6,015	5.4	-1.3	-8.6
U.S. SOURCES, TOTAL	6,320	6,659	6,576	5,997	5.4	-1.2	-8.8
U.S. GOVERNMENT	5,554	5,833	5,682	5,068	5.0	-2.6	-10.8
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	525	580	655	671	10.5	12.9	2.4
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	241	246	239	258	2.1	-2.8	7.9
FOREIGN SOURCES, TOTAL	5	5	4	18	a/	a/	a/
FOREIGN STUDENTS	668	713	711	746	6.7	-.3	4.9
U.S. SOURCES, TOTAL	526	568	576	574	8.0	1.4	-.3
U.S. GOVERNMENT	183	192	216	199	4.9	12.5	-7.9
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	140	170	152	171	21.4	-10.6	12.5
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	203	206	208	204	1.5	1.0	-1.9
FOREIGN SOURCES, TOTAL	142	145	135	172	2.1	-6.9	27.4
RESEARCH ASSISTANTSHIPS, TOTAL	4,961	4,832	4,543	4,547	-2.6	-6.0	.1
U.S. SOURCES, TOTAL	4,937	4,807	4,525	4,536	-2.6	-5.9	.2
U.S. GOVERNMENT	2,823	2,646	2,342	2,342	-6.3	-11.5	b/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	1,706	1,760	1,745	1,786	3.2	-.9	2.3
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	408	401	438	408	-1.7	9.2	-6.8
FOREIGN SOURCES, TOTAL	24	25	18	11	a/	a/	a/
U.S. CITIZENS	3,815	3,656	3,412	3,482	-4.2	-6.7	2.1
U.S. SOURCES, TOTAL	3,815	3,656	3,410	3,482	-4.2	-6.7	2.1
U.S. GOVERNMENT	2,193	2,007	1,782	1,813	-8.5	-11.2	1.7
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	1,321	1,341	1,297	1,362	1.5	-3.3	5.0
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	301	308	331	307	2.3	7.5	-7.3
FOREIGN SOURCES, TOTAL	0	0	2	0	---	---	a/
FOREIGN STUDENTS	1,146	1,176	1,131	1,065	2.6	-3.8	-5.8
U.S. SOURCES, TOTAL	1,122	1,151	1,115	1,054	2.6	-3.1	-5.5
U.S. GOVERNMENT	630	639	560	529	1.4	-12.4	-5.5
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	385	419	448	424	8.8	6.9	-5.4
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	107	93	107	101	-13.1	15.1	-5.6
FOREIGN SOURCES, TOTAL	24	25	16	11	a/	a/	a/

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a/ Percent change is not shown when base is 50 or less.
b/ Less than 0.05 percent.

TABLE C-14E. FULL-TIME GRADUATE STUDENTS IN LIFE SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1967-70 (CONTINUED)

SOURCE OF MAJOR SUPPORT	NUMBER				PERCENT CHANGE		
	1967	1968	1969	1970	1967-68	1968-69	1969-70
TEACHING ASSISTANTSHIPS, TOTAL	4,168	4,336	4,655	4,823	4.0	7.4	3.6
U.S. SOURCES, TOTAL	4,168	4,336	4,655	4,823	4.0	7.4	3.6
U.S. GOVERNMENT	28	28	34	66	a/	a/	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	4,133	4,283	4,581	4,716	3.6	7.0	2.9
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	7	25	40	41	a/	a/	a/
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
U.S. CITIZENS	3,745	3,835	4,109	4,265	2.4	7.1	3.8
U.S. SOURCES, TOTAL	3,745	3,835	4,109	4,265	2.4	7.1	3.8
U.S. GOVERNMENT	23	23	27	55	a/	a/	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	3,717	3,790	4,047	4,174	2.0	6.8	3.1
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	5	22	35	36	a/	a/	a/
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
FOREIGN STUDENTS	423	501	546	558	18.4	9.0	2.2
U.S. SOURCES, TOTAL	423	501	546	558	18.4	9.0	2.2
U.S. GOVERNMENT	5	5	7	11	a/	a/	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	416	493	534	542	18.5	8.3	1.5
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	2	3	5	5	a/	a/	a/
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
OTHER TYPES OF MAJOR SUPPORT, TOTAL	3,379	3,552	3,950	4,357	5.1	11.2	10.3
U.S. SOURCES, TOTAL	3,243	3,472	3,862	4,237	7.1	11.2	9.7
U.S. GOVERNMENT	345	274	250	248	-20.6	-8.8	-.8
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	297	289	298	242	-2.7	3.1	-18.8
SELF-SUPPORT	2,105	2,625	2,941	3,469	24.7	12.0	18.0
ALL OTHER U.S. SOURCES	496	284	373	278	-42.7	31.3	-25.5
FOREIGN SOURCES, TOTAL	136	80	88	120	-41.2	10.0	36.4
U.S. CITIZENS	2,824	3,014	3,298	3,711	6.7	9.4	12.5
U.S. SOURCES, TOTAL	2,824	3,014	3,298	3,711	6.7	9.4	12.5
U.S. GOVERNMENT	259	206	196	201	-20.5	-4.9	2.6
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	264	258	261	210	-2.3	1.2	-19.5
SELF-SUPPORT	1,881	2,338	2,531	3,091	24.3	8.3	22.1
ALL OTHER U.S. SOURCES	420	212	310	209	-49.5	46.2	-32.6
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
FOREIGN STUDENTS	555	538	652	646	-3.1	21.2	-.9
U.S. SOURCES, TOTAL	419	458	564	526	9.3	23.1	-6.7
U.S. GOVERNMENT	86	68	54	47	-20.9	-20.6	-13.0
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	33	31	37	32	a/	a/	a/
SELF-SUPPORT	224	287	410	378	28.1	42.9	-7.8
ALL OTHER U.S. SOURCES	76	72	63	69	-5.3	-12.5	9.5
FOREIGN SOURCES, TOTAL	136	80	88	120	-41.2	10.0	36.4

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a/ Percent change is not shown when base is 50 or less.

TABLE C-14F. FULL-TIME GRADUATE STUDENTS IN PSYCHOLOGY DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1967-70

SOURCE OF MAJOR SUPPORT	NUMBER				PERCENT CHANGE		
	1967	1968	1969	1970	1967-68	1968-69	1969-70
ALL SOURCES OF MAJOR SUPPORT, TOTAL.......	9,051	9,909	10,498	10,638	9.5	5.9	1.3
U.S. SOURCES, TOTAL........................	9,034	9,892	10,462	10,609	9.5	5.8	1.4
U.S. GOVERNMENT..........................	4,337	4,573	4,709	4,585	5.4	3.0	-2.6
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS...............	2,912	3,309	3,436	3,607	13.6	3.8	5.0
SELF-SUPPORT.............................	1,363	1,549	1,734	1,857	13.6	11.9	7.1
ALL OTHER U.S. SOURCES.................	422	461	583	560	9.2	26.5	-3.9
FOREIGN SOURCES, TOTAL...................	17	17	36	29	a/	a/	a/
U.S. CITIZENS	8,714	9,562	10,059	10,224	9.7	5.2	1.6
U.S. SOURCES, TOTAL........................	8,713	9,561	10,056	10,223	9.7	5.2	1.7
U.S. GOVERNMENT..........................	4,244	4,490	4,617	4,500	5.8	2.8	-2.5
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS...............	2,750	3,132	3,233	3,405	13.9	3.2	5.3
SELF-SUPPORT.............................	1,329	1,501	1,644	1,797	12.9	9.5	9.3
ALL OTHER U.S. SOURCES.................	390	438	562	521	12.3	28.3	-7.3
FOREIGN SOURCES, TOTAL...................	1	1	3	1	a/	a/	a/
FOREIGN STUDENTS........................	337	347	439	414	3.0	26.5	-5.7
U.S. SOURCES, TOTAL........................	321	331	406	386	3.1	22.7	-4.9
U.S. GOVERNMENT..........................	93	83	92	85	-10.8	10.8	-7.6
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS...............	162	177	203	202	9.3	14.7	-.5
SELF-SUPPORT.............................	34	48	90	60	a/	a/	-33.3
ALL OTHER U.S. SOURCES.................	32	23	21	39	a/	a/	a/
FOREIGN SOURCES, TOTAL...................	16	16	33	28	a/	a/	a/
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.......	3,827	4,147	4,365	4,316	8.4	5.3	-1.1
U.S. SOURCES, TOTAL........................	3,815	4,135	4,337	4,300	8.4	4.9	-.9
U.S. GOVERNMENT..........................	3,281	3,494	3,645	3,523	6.5	4.3	-3.3
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS...............	384	525	524	626	36.7	-.2	19.5
SELF-SUPPORT.............................	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES.................	150	116	168	151	-22.7	44.8	-10.1
FOREIGN SOURCES, TOTAL...................	12	12	28	16	a/	a/	a/
U.S. CITIZENS	3,733	4,060	4,265	4,206	8.8	5.0	-1.4
U.S. SOURCES, TOTAL........................	3,732	4,059	4,262	4,205	8.8	5.0	-1.3
U.S. GOVERNMENT..........................	3,261	3,478	3,627	3,505	6.7	4.3	-3.4
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS...............	342	475	477	568	38.9	.4	19.1
SELF-SUPPORT.............................	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES.................	129	106	158	132	-17.8	49.1	-16.5
FOREIGN SOURCES, TOTAL...................	1	1	3	1	a/	a/	a/
FOREIGN STUDENTS........................	94	87	100	110	-7.4	14.9	10.0
U.S. SOURCES, TOTAL........................	83	76	75	95	-8.4	-1.3	26.7
U.S. GOVERNMENT..........................	20	16	18	18	a/	a/	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS...............	42	50	47	58	a/	a/	a/
SELF-SUPPORT.............................	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES.................	21	10	10	19	a/	a/	a/
FOREIGN SOURCES, TOTAL...................	11	11	25	15	a/	a/	a/
RESEARCH ASSISTANTSHIPS, TOTAL............	1,500	1,494	1,523	1,528	-.4	1.9	.3
U.S. SOURCES, TOTAL........................	1,500	1,494	1,522	1,526	-.4	1.9	.3

FOREIGN SOURCES, TOTAL	16	18					
FELLOWSHIPS AND TRAINEESHIPS, TOTAL	3,827	4,147	4,365	4,316	8.4	5.3	-1.1
U.S. SOURCES, TOTAL	3,815	4,135	4,337	4,300	8.4	4.9	-.9
U.S. GOVERNMENT	3,281	3,494	3,645	3,523	6.5	4.3	-3.3
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	384	525	524	626	36.7	-.2	19.5
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	150	116	168	151	-22.7	44.8	-10.1
FOREIGN SOURCES, TOTAL	12	12	28	16	a/	a/	a/
U.S. CITIZENS	3,733	4,060	4,265	4,206	8.8	5.0	-1.4
U.S. SOURCES, TOTAL	3,732	4,059	4,262	4,205	8.8	5.0	-1.3
U.S. GOVERNMENT	3,261	3,478	3,627	3,505	6.7	4.3	-3.4
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	342	475	477	568	38.9	.4	19.1
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	129	106	158	132	-17.8	49.1	-16.5
FOREIGN SOURCES, TOTAL	1	1	3	1	a/	a/	a/
FOREIGN STUDENTS	94	87	100	110	-7.4	14.9	10.0
U.S. SOURCES, TOTAL	83	76	75	95	-8.4	-1.3	26.7
U.S. GOVERNMENT	20	16	18	18	a/	a/	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	42	50	47	58	a/	a/	a/
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	21	10	10	19	a/	a/	a/
FOREIGN SOURCES, TOTAL	11	11	25	15	a/	a/	a/
RESEARCH ASSISTANTSHIPS, TOTAL	1,500	1,494	1,523	1,528	-.4	1.9	.3
U.S. SOURCES, TOTAL	1,500	1,494	1,522	1,526	-.4	1.9	.3
U.S. GOVERNMENT	934	931	935	907	-.3	.4	-3.0
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	517	495	525	541	-4.3	6.1	3.0
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	49	68	62	78	a/	-8.8	25.8
FOREIGN SOURCES, TOTAL	0	0	1	2	---	---	a/
U.S. CITIZENS	1,402	1,394	1,412	1,424	-.6	1.3	.8
U.S. SOURCES, TOTAL	1,402	1,394	1,412	1,424	-.6	1.3	.8
U.S. GOVERNMENT	865	866	866	844	.1	b/	-2.5
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	491	464	488	508	-5.5	5.2	4.1
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	46	64	58	72	a/	-9.4	24.1
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
FOREIGN STUDENTS	98	100	111	104	2.0	11.0	-6.3
U.S. SOURCES, TOTAL	98	100	110	102	2.0	10.0	-7.3
U.S. GOVERNMENT	69	65	69	63	-5.8	6.2	-8.7
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	26	31	37	33	a/	a/	a/
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	3	4	4	6	a/	a/	a/
FOREIGN SOURCES, TOTAL	0	0	1	2	---	---	a/

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a/ Percent change is not shown when base is 50 or less.
b/ Less than 0.05 percent.

TABLE C-14F. FULL-TIME GRADUATE STUDENTS IN PSYCHOLOGY DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1967-70 (CONTINUED)

	NUMBER				PERCENT CHANGE		
SOURCE OF MAJOR SUPPORT	1967	1968	1969	1970	1967-68	1968-69	1969-70
TEACHING ASSISTANTSHIPS, TOTAL	1,689	1,894	2,025	2,125	12.1	6.9	4.9
U.S. SOURCES, TOTAL	1,689	1,894	2,025	2,125	12.1	6.9	4.9
U.S. GOVERNMENT	9	8	7	24	a/	a/	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	1,670	1,878	2,016	2,056	12.5	7.3	2.0
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	10	8	2	45	a/	a/	a/
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
U.S. CITIZENS	1,611	1,815	1,916	2,024	12.7	5.6	5.6
U.S. SOURCES, TOTAL	1,611	1,815	1,916	2,024	12.7	5.6	5.6
U.S. GOVERNMENT	8	8	7	22	a/	a/	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	1,593	1,799	1,907	1,959	12.9	6.0	2.7
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	10	8	2	43	a/	a/	a/
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
FOREIGN STUDENTS	78	79	109	101	1.3	38.0	-7.3
U.S. SOURCES, TOTAL	78	79	109	101	1.3	38.0	-7.3
U.S. GOVERNMENT	1	0	0	2	a/	---	---
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	77	79	109	97	2.6	38.0	-11.0
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	0	0	0	2	---	---	---
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
OTHER TYPES OF MAJOR SUPPORT, TOTAL	2,035	2,374	2,585	2,669	16.7	8.9	3.2
U.S. SOURCES, TOTAL	2,030	2,369	2,578	2,658	16.7	8.8	3.1
U.S. GOVERNMENT	113	140	122	131	23.9	-12.9	7.4
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	341	411	371	384	20.5	-9.7	3.5
SELF-SUPPORT	1,363	1,549	1,734	1,857	13.6	11.9	7.1
ALL OTHER U.S. SOURCES	213	269	351	286	26.3	30.5	-18.5
FOREIGN SOURCES, TOTAL	5	5	7	11	a/	a/	a/
U.S. CITIZENS	1,968	2,293	2,466	2,570	16.5	7.5	4.2
U.S. SOURCES, TOTAL	1,968	2,293	2,466	2,570	16.5	7.5	4.2
U.S. GOVERNMENT	110	138	117	129	25.5	-15.2	10.3
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	324	394	361	370	21.6	-8.4	2.5
SELF-SUPPORT	1,329	1,501	1,644	1,797	12.9	9.5	9.3
ALL OTHER U.S. SOURCES	205	260	344	274	26.8	32.3	-20.3
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
FOREIGN STUDENTS	67	81	119	99	20.9	46.9	-16.8
U.S. SOURCES, TOTAL	62	76	112	88	22.6	47.4	-21.4
U.S. GOVERNMENT	3	2	5	2	a/	a/	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	17	17	10	14	a/	a/	a/
SELF-SUPPORT	34	48	90	60	a/	a/	-33.3
ALL OTHER U.S. SOURCES	8	9	7	12	a/	a/	a/
FOREIGN SOURCES, TOTAL	5	5	7	11	a/	a/	a/

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a/ Percent change is not shown when base is 50 or less.

TABLE C-14G. FULL-TIME GRADUATE STUDENTS IN SOCIAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1967-70

SOURCE OF MAJOR SUPPORT	NUMBER 1967	 1968	 1969	 1970	PERCENT CHANGE 1967-68	 1968-69	 1969-70
ALL SOURCES OF MAJOR SUPPORT, TOTAL.......	21,253	22,635	24,077	23,450	6.5	6.4	-2.6
U.S. SOURCES, TOTAL......................	20,857	22,229	23,690	23,049	6.6	6.6	-2.7
U.S. GOVERNMENT........................	5,509	5,655	5,250	4,891	2.7	-7.2	-6.8
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS...............	7,624	8,177	8,562	8,442	7.3	4.7	-1.4
SELF-SUPPORT...........................	5,568	6,655	8,166	7,734	19.5	22.7	-5.3
ALL OTHER U.S. SOURCES.................	2,156	1,742	1,712	1,982	-19.2	-1.7	15.8
FOREIGN SOURCES, TOTAL..................	396	406	387	401	2.5	-4.7	3.6
U.S. CITIZENS	17,877	18,921	20,228	19,453	5.8	6.9	-3.8
U.S. SOURCES, TOTAL......................	17,867	18,912	20,225	19,450	5.8	6.9	-3.8
U.S. GOVERNMENT........................	5,160	5,295	4,917	4,506	2.6	-7.1	-8.4
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS...............	6,272	6,683	6,951	6,869	6.6	4.0	-1.2
SELF-SUPPORT...........................	4,830	5,725	7,145	6,675	18.5	24.8	-6.6
ALL OTHER U.S. SOURCES.................	1,605	1,209	1,212	1,400	-24.7	.2	15.5
FOREIGN SOURCES, TOTAL..................	10	9	3	3	a/	a/	a/
FOREIGN STUDENTS........................	3,376	3,714	3,849	3,997	10.0	3.6	3.8
U.S. SOURCES, TOTAL......................	2,990	3,317	3,465	3,599	10.9	4.5	3.9
U.S. GOVERNMENT........................	349	360	333	385	3.2	-7.5	15.6
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS...............	1,352	1,494	1,611	1,573	10.5	7.8	-2.4
SELF-SUPPORT...........................	738	930	1,021	1,059	26.0	9.8	3.7
ALL OTHER U.S. SOURCES.................	551	533	500	582	-3.3	-6.2	16.4
FOREIGN SOURCES, TOTAL..................	386	397	384	398	2.8	-3.3	3.6
FELLOWSHIPS AND TRAINEESHIPS, TOTAL.......	7,755	8,185	8,052	7,654	5.5	-1.6	-4.9
U.S. SOURCES, TOTAL......................	7,450	7,862	7,750	7,343	5.5	-1.4	-5.3
U.S. GOVERNMENT........................	4,505	4,758	4,269	3,980	5.6	-10.3	-6.8
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS...............	1,675	1,962	2,302	2,044	17.1	17.3	-11.2
SELF-SUPPORT...........................	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES.................	1,270	1,142	1,179	1,319	-10.1	3.2	11.9
FOREIGN SOURCES, TOTAL..................	305	323	302	311	5.9	-6.5	3.0
U.S. CITIZENS	6,422	6,806	6,682	6,163	6.0	-1.8	-7.8
U.S. SOURCES, TOTAL......................	6,412	6,797	6,679	6,160	6.0	-1.7	-7.8
U.S. GOVERNMENT........................	4,305	4,551	4,125	3,780	5.7	-9.4	-8.4
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS...............	1,271	1,515	1,753	1,537	19.2	15.7	-12.3
SELF-SUPPORT...........................	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES.................	836	731	801	843	-12.6	9.6	5.2
FOREIGN SOURCES, TOTAL..................	10	9	3	3	a/	a/	a/
FOREIGN STUDENTS........................	1,333	1,379	1,370	1,491	3.5	-.7	8.8
U.S. SOURCES, TOTAL......................	1,038	1,065	1,071	1,183	2.6	.6	10.5
U.S. GOVERNMENT........................	200	207	144	200	3.5	-30.4	38.9
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS...............	404	447	549	507	10.6	22.8	-7.7
SELF-SUPPORT...........................	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES.................	434	411	378	476	-5.3	-8.0	25.9
FOREIGN SOURCES, TOTAL..................	295	314	299	308	6.4	-4.8	3.0

SELF-SUPPORT	738	930	1,021	[illegible]	[illegible]	[illegible]	[illegible]
ALL OTHER U.S. SOURCES	551	533	500	582	-3.3	-6.2	16.4
FOREIGN SOURCES, TOTAL	386	397	384	398	2.8	-3.3	3.6
FELLOWSHIPS AND TRAINEESHIPS, TOTAL	7,755	8,185	8,052	7,654	5.5	-1.6	-4.9
U.S. SOURCES, TOTAL	7,450	7,862	7,750	7,343	5.5	-1.4	-5.3
U.S. GOVERNMENT	4,505	4,758	4,269	3,980	5.6	-10.3	-6.8
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	1,675	1,962	2,302	2,044	17.1	17.3	-11.2
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	1,270	1,142	1,179	1,319	-10.1	3.2	11.9
FOREIGN SOURCES, TOTAL	305	323	302	311	5.9	-6.5	3.0
U.S. CITIZENS	6,422	6,806	6,682	6,163	6.0	-1.8	-7.8
U.S. SOURCES, TOTAL	6,412	6,797	6,679	6,160	6.0	-1.7	-7.8
U.S. GOVERNMENT	4,305	4,551	4,125	3,780	5.7	-9.4	-8.4
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	1,271	1,515	1,753	1,537	19.2	15.7	-12.3
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	836	731	801	843	-12.6	9.6	5.2
FOREIGN SOURCES, TOTAL	10	9	3	3	a/	a/	a/
FOREIGN STUDENTS	1,333	1,379	1,370	1,491	3.5	-.7	8.8
U.S. SOURCES, TOTAL	1,038	1,065	1,071	1,183	2.6	.6	10.5
U.S. GOVERNMENT	200	207	144	200	3.5	-30.4	38.9
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	404	447	549	507	10.6	22.8	-7.7
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	434	411	378	476	-5.3	-8.0	25.9
FOREIGN SOURCES, TOTAL	295	314	299	308	6.4	-4.8	3.0
RESEARCH ASSISTANTSHIPS, TOTAL	2,348	2,380	2,282	2,229	1.4	-4.1	-2.3
U.S. SOURCES, TOTAL	2,341	2,379	2,276	2,225	1.6	-4.3	-2.2
U.S. GOVERNMENT	726	684	683	616	-5.8	-.1	-9.8
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	1,435	1,539	1,418	1,520	7.2	-7.9	7.2
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	180	156	175	89	-13.3	12.2	-49.1
FOREIGN SOURCES, TOTAL	7	1	6	4	a/	a/	a/
U.S. CITIZENS	1,902	1,893	1,780	1,726	-.5	-6.0	-3.0
U.S. SOURCES, TOTAL	1,902	1,893	1,780	1,726	-.5	-6.0	-3.0
U.S. GOVERNMENT	606	551	532	483	-9.1	-3.4	-9.2
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	1,146	1,218	1,124	1,183	6.3	-7.7	5.2
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	150	124	124	60	-17.3	b/	-51.6
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
FOREIGN STUDENTS	446	487	502	503	9.2	3.1	.2
U.S. SOURCES, TOTAL	439	486	496	499	10.7	2.1	.6
U.S. GOVERNMENT	120	133	151	133	10.8	13.5	-11.9
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	289	321	294	337	11.1	-8.4	14.6
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	30	32	51	29	a/	a/	-43.1
FOREIGN SOURCES, TOTAL	7	1	6	4	a/	a/	a/

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a/ Percent change is not shown when base is 50 or less.
b/ Less than 0.05 percent.

TABLE C-14G. FULL-TIME GRADUATE STUDENTS IN SOCIAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY SOURCE AND TYPE OF MAJOR SUPPORT AND CITIZENSHIP, 1967-70 (CONTINUED)

SOURCE OF MAJOR SUPPORT	NUMBER 1967	 1968	 1969	 1970	PERCENT CHANGE 1967-68	 1968-69	 1969-70
TEACHING ASSISTANTSHIPS, TOTAL	3,949	4,160	4,552	4,597	5.3	9.4	1.0
U.S. SOURCES, TOTAL	3,949	4,160	4,552	4,597	5.3	9.4	1.0
U.S. GOVERNMENT	52	31	65	24	-40.4	a/	-63.1
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	3,872	4,107	4,457	4,560	6.1	8.5	2.3
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	25	22	30	13	a/	a/	a/
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
U.S. CITIZENS	3,417	3,539	3,840	3,909	3.6	8.5	1.8
U.S. SOURCES, TOTAL	3,417	3,539	3,840	3,909	3.6	8.5	1.8
U.S. GOVERNMENT	43	27	55	23	a/	a/	-58.2
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	3,350	3,492	3,759	3,874	4.2	7.6	3.1
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	24	20	26	12	a/	a/	a/
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
FOREIGN STUDENTS	532	621	712	688	16.7	14.7	-3.4
U.S. SOURCES, TOTAL	532	621	712	688	16.7	14.7	-3.4
U.S. GOVERNMENT	9	4	10	1	a/	a/	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	522	615	698	686	17.8	13.5	-1.7
SELF-SUPPORT	0	0	0	0	---	---	---
ALL OTHER U.S. SOURCES	1	2	4	1	a/	a/	a/
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
OTHER TYPES OF MAJOR SUPPORT, TOTAL	7,201	7,910	9,191	8,970	9.8	16.2	-2.4
U.S. SOURCES, TOTAL	7,117	7,828	9,112	8,884	10.0	16.4	-2.5
U.S. GOVERNMENT	226	182	233	271	-19.5	28.0	16.3
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	642	569	385	318	-11.4	-32.3	-17.4
SELF-SUPPORT	5,568	6,655	8,166	7,734	19.5	22.7	-5.3
ALL OTHER U.S. SOURCES	681	422	328	561	-38.0	-22.3	71.0
FOREIGN SOURCES, TOTAL	84	82	79	86	-2.4	-3.7	8.9
U.S. CITIZENS	6,136	6,683	7,926	7,655	8.9	18.6	-3.4
U.S. SOURCES, TOTAL	6,136	6,683	7,926	7,655	8.9	18.6	-3.4
U.S. GOVERNMENT	206	166	205	220	-19.4	23.5	7.3
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	505	458	315	275	-9.3	-31.2	-12.7
SELF-SUPPORT	4,830	5,725	7,145	6,675	18.5	24.8	-6.6
ALL OTHER U.S. SOURCES	595	334	261	485	-43.9	-21.9	85.8
FOREIGN SOURCES, TOTAL	0	0	0	0	---	---	---
FOREIGN STUDENTS	1,065	1,227	1,265	1,315	15.2	3.1	4.0
U.S. SOURCES, TOTAL	981	1,145	1,186	1,229	16.7	3.6	3.6
U.S. GOVERNMENT	20	16	28	51	a/	a/	a/
INSTITUTIONS AND STATE AND LOCAL GOVERNMENTS	137	111	70	43	-19.0	-36.9	-38.6
SELF-SUPPORT	738	930	1,021	1,059	26.0	9.8	3.7
ALL OTHER U.S. SOURCES	86	88	67	76	2.3	-23.9	13.4
FOREIGN SOURCES, TOTAL	84	82	79	86	-2.4	-3.7	8.9

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a/ Percent change is not shown when base is 50 or less.

TABLE C-15A. FULL-TIME GRADUATE STUDENTS IN SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY LEVEL OF STUDY, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1967-70

ITEM	NUMBER				PERCENT CHANGE		
	1967	1968	1969	1970	1967-68	1968-69	1969-70
ALL SCIENCES, TOTAL......................	115,048	117,992	119,659	118,593	2.6	1.4	-0.9
FIRST-YEAR STUDENTS....................	38,663	36,562	38,519	37,226	-5.4	5.4	-3.4
BEYOND-FIRST-YEAR STUDENTS............	76,385	81,430	81,139	81,367	6.6	-.4	.3
CITIZENSHIP							
U. S. CITIZENS, TOTAL.................	95,739	96,534	95,876	94,108	.8	-.7	-1.8
FIRST-YEAR STUDENTS..................	31,962	29,162	30,343	29,612	-8.8	4.0	-2.4
BEYOND-FIRST-YEAR STUDENTS..........	63,777	67,372	65,532	64,496	5.6	-2.7	-1.6
FOREIGN STUDENTS, TOTAL...............	19,309	21,458	23,783	24,485	11.1	10.8	3.0
FIRST-YEAR STUDENTS..................	6,701	7,400	8,176	7,614	10.4	10.5	-6.9
BEYOND-FIRST-YEAR STUDENTS..........	12,608	14,058	15,607	16,871	11.5	11.0	8.1
TYPE OF MAJOR SUPPORT							
FELLOWSHIPS AND TRAINEESHIPS, TOTAL...	37,266	37,833	35,598	32,784	1.5	-5.9	-7.9
FIRST-YEAR STUDENTS..................	11,943	10,517	10,438	9,906	-11.9	-.8	-5.1
BEYOND-FIRST-YEAR STUDENTS..........	25,323	27,316	25,159	22,878	7.9	-7.9	-9.1
U. S. CITIZENS, TOTAL...............	33,251	33,575	31,152	28,282	1.0	-7.2	-9.2
FIRST-YEAR STUDENTS................	10,396	9,011	8,828	8,398	-13.3	-2.0	-4.9
BEYOND-FIRST-YEAR STUDENTS........	22,855	24,564	22,323	19,884	7.5	-9.1	-10.9
FOREIGN STUDENTS, TOTAL.............	4,015	4,258	4,446	4,502	6.1	4.4	1.3
FIRST-YEAR STUDENTS................	1,547	1,506	1,610	1,508	-2.7	6.9	-6.3
BEYOND-FIRST-YEAR STUDENTS........	2,468	2,752	2,836	2,994	11.5	3.1	5.6
RESEARCH ASSISTANTSHIPS, TOTAL........	26,375	26,056	25,846	25,753	-1.2	-.8	-.4
FIRST-YEAR STUDENTS..................	5,331	4,898	5,053	4,983	-8.1	3.2	-1.4
BEYOND-FIRST-YEAR STUDENTS..........	21,044	21,158	20,793	20,770	.5	-1.7	-.1
U. S. CITIZENS, TOTAL...............	19,964	19,088	18,238	18,077	-4.4	-4.5	-.9
FIRST-YEAR STUDENTS................	3,980	3,413	3,522	3,612	-14.2	3.2	2.6
BEYOND-FIRST-YEAR STUDENTS........	15,984	15,675	14,716	14,465	-1.9	-6.1	-1.7
FOREIGN STUDENTS, TOTAL.............	6,411	6,968	7,608	7,676	8.7	9.2	.9
FIRST-YEAR STUDENTS................	1,351	1,485	1,531	1,371	9.9	3.1	-10.5
BEYOND-FIRST-YEAR STUDENTS........	5,060	5,483	6,077	6,305	8.4	10.8	3.8
TEACHING ASSISTANTSHIPS, TOTAL........	26,406	27,693	28,668	29,868	4.9	3.5	4.2
FIRST-YEAR STUDENTS..................	9,550	9,439	9,731	9,126	-1.2	3.1	-6.2
BEYOND-FIRST-YEAR STUDENTS..........	16,856	18,254	18,937	20,742	8.3	3.7	9.5
U. S. CITIZENS, TOTAL...............	22,084	22,669	22,980	23,915	2.6	1.4	4.1

U. S. CITIZENS, TOTAL................	33,251	[illegible]	[illegible]				
FIRST-YEAR STUDENTS................	10,396	9,011	8,828	8,398	-13.3	-2.0	-4.9
BEYOND-FIRST-YEAR STUDENTS........	22,855	24,564	22,323	19,884	7.5	-9.1	-10.9
FOREIGN STUDENTS, TOTAL.............	4,015	4,258	4,446	4,502	6.1	4.4	1.3
FIRST-YEAR STUDENTS................	1,547	1,506	1,610	1,508	-2.7	6.9	-6.3
BEYOND-FIRST-YEAR STUDENTS........	2,468	2,752	2,836	2,994	11.5	3.1	5.6
RESEARCH ASSISTANTSHIPS, TOTAL........	26,375	26,056	25,846	25,753	-1.2	-.8	-.4
FIRST-YEAR STUDENTS.................	5,331	4,898	5,053	4,983	-8.1	3.2	-1.4
BEYOND-FIRST-YEAR STUDENTS..........	21,044	21,158	20,793	20,770	.5	-1.7	-.1
U. S. CITIZENS, TOTAL...............	19,964	19,088	18,238	18,077	-4.4	-4.5	-.9
FIRST-YEAR STUDENTS...............	3,980	3,413	3,522	3,612	-14.2	3.2	2.6
BEYOND-FIRST-YEAR STUDENTS........	15,984	15,675	14,716	14,465	-1.9	-6.1	-1.7
FOREIGN STUDENTS, TOTAL.............	6,411	6,968	7,608	7,676	8.7	9.2	.9
FIRST-YEAR STUDENTS...............	1,351	1,485	1,531	1,371	9.9	3.1	-10.5
BEYOND-FIRST-YEAR STUDENTS........	5,060	5,483	6,077	6,305	8.4	10.8	3.8
TEACHING ASSISTANTSHIPS, TOTAL........	26,406	27,693	28,668	29,868	4.9	3.5	4.2
FIRST-YEAR STUDENTS.................	9,550	9,439	9,731	9,126	-1.2	3.1	-6.2
BEYOND-FIRST-YEAR STUDENTS..........	16,856	18,254	18,937	20,742	8.3	3.7	9.5
U. S. CITIZENS, TOTAL...............	22,084	22,669	22,980	23,915	2.6	1.4	4.1
FIRST-YEAR STUDENTS...............	8,083	7,722	7,847	7,567	-4.5	1.6	-3.6
BEYOND-FIRST-YEAR STUDENTS........	14,001	14,947	15,133	16,348	6.8	1.2	8.0
FOREIGN STUDENTS, TOTAL.............	4,322	5,024	5,688	5,953	16.2	13.2	4.7
FIRST-YEAR STUDENTS...............	1,467	1,717	1,884	1,559	17.0	9.7	-17.3
BEYOND-FIRST-YEAR STUDENTS........	2,855	3,307	3,804	4,394	15.8	15.0	15.5
OTHER TYPES OF MAJOR SUPPORT, TOTAL.....	25,001	26,410	29,547	30,188	5.6	11.9	2.2
FIRST-YEAR STUDENTS.................	11,839	11,708	13,297	13,211	-1.1	13.6	-.6
BEYOND-FIRST-YEAR STUDENTS..........	13,162	14,702	16,250	16,977	11.7	10.5	4.5
U. S. CITIZENS, TOTAL...............	20,440	21,202	23,506	23,834	3.7	10.9	1.4
FIRST-YEAR STUDENTS...............	9,503	9,016	10,146	10,035	-5.1	12.5	-1.1
BEYOND-FIRST-YEAR STUDENTS........	10,937	12,186	13,360	13,799	11.4	9.6	3.3
FOREIGN STUDENTS, TOTAL.............	4,561	5,208	6,041	6,354	14.2	16.0	5.2
FIRST-YEAR STUDENTS...............	2,336	2,692	3,151	3,176	15.2	17.1	.8
BEYOND-FIRST-YEAR STUDENTS........	2,225	2,516	2,890	3,178	13.1	14.9	10.0

TABLE C-15B. FULL-TIME GRADUATE STUDENTS IN ENGINEERING DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY LEVEL OF STUDY, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1967-70

ITEM	NUMBER				PERCENT CHANGE		
	1967	1968	1969	1970	1967-68	1968-69	1969-70
ALL SCIENCES, TOTAL	26,431	26,042	26,390	26,947	-1.5	1.3	2.1
FIRST-YEAR STUDENTS	10,943	9,681	10,145	10,578	-11.5	4.8	4.3
BEYOND-FIRST-YEAR STUDENTS	15,488	16,361	16,245	16,369	5.6	-.7	.8
CITIZENSHIP							
U. S. CITIZENS, TOTAL	19,301	17,878	17,071	17,118	-7.4	-4.5	.3
FIRST-YEAR STUDENTS	8,078	6,373	6,437	7,060	-21.1	1.0	9.7
BEYOND-FIRST-YEAR STUDENTS	11,223	11,505	10,634	10,058	2.5	-7.6	-5.4
FOREIGN STUDENTS, TOTAL	7,130	8,164	9,319	9,829	14.5	14.1	5.5
FIRST-YEAR STUDENTS	2,865	3,308	3,708	3,518	15.5	12.1	-5.1
BEYOND-FIRST-YEAR STUDENTS	4,265	4,856	5,611	6,311	13.9	15.5	12.5
TYPE OF MAJOR SUPPORT							
FELLOWSHIPS AND TRAINEESHIPS, TOTAL	8,243	7,728	6,917	6,357	-6.2	-10.5	-8.1
FIRST-YEAR STUDENTS	3,222	2,657	2,577	2,606	-17.5	-3.0	1.1
BEYOND-FIRST-YEAR STUDENTS	5,021	5,071	4,340	3,751	1.0	-14.4	-13.6
U. S. CITIZENS, TOTAL	7,173	6,607	5,690	5,155	-7.9	-13.9	-9.4
FIRST-YEAR STUDENTS	2,771	2,168	2,052	2,150	-21.8	-5.4	4.8
BEYOND-FIRST-YEAR STUDENTS	4,402	4,439	3,638	3,005	.8	-18.0	-17.4
FOREIGN STUDENTS, TOTAL	1,070	1,121	1,227	1,202	4.8	9.5	-2.0
FIRST-YEAR STUDENTS	451	489	525	456	8.4	7.4	-13.1
BEYOND-FIRST-YEAR STUDENTS	619	632	702	746	2.1	11.1	6.3
RESEARCH ASSISTANTSHIPS, TOTAL	7,668	7,735	7,731	8,081	.9	-.1	4.5
FIRST-YEAR STUDENTS	2,174	1,963	1,888	2,027	-9.7	-3.8	7.4
BEYOND-FIRST-YEAR STUDENTS	5,494	5,772	5,843	6,054	5.1	1.2	3.6
U. S. CITIZENS, TOTAL	4,795	4,457	4,115	4,289	-7.0	-7.7	4.2
FIRST-YEAR STUDENTS	1,430	1,126	1,033	1,252	-21.3	-8.3	21.2
BEYOND-FIRST-YEAR STUDENTS	3,365	3,331	3,082	3,037	-1.0	-7.5	-1.5
FOREIGN STUDENTS, TOTAL	2,873	3,278	3,616	3,792	14.1	10.3	4.9
FIRST-YEAR STUDENTS	744	837	855	775	12.5	2.2	-9.4
BEYOND-FIRST-YEAR STUDENTS	2,129	2,441	2,761	3,017	14.7	13.1	9.3
TEACHING ASSISTANTSHIPS, TOTAL	3,369	3,439	3,636	3,777	2.1	5.7	3.9
FIRST-YEAR STUDENTS	1,372	1,288	1,279	1,212	-6.1	-.7	-5.2
BEYOND-FIRST-YEAR STUDENTS	1,997	2,151	2,357	2,565	7.7	9.6	8.8
U. S. CITIZENS, TOTAL	2,301	2,166	2,110	2,230	-5.9	-2.6	5.7

FIRST-YEAR STUDENTS..................	3,222	2,657	2,577	2,606	-17.5	-3.0	1.1
BEYOND-FIRST-YEAR STUDENTS..........	5,021	5,071	4,340	3,751	1.0	-14.4	-13.6
U. S. CITIZENS, TOTAL...............	7,173	6,607	5,690	5,155	-7.9	-13.9	-9.4
FIRST-YEAR STUDENTS................	2,771	2,168	2,052	2,150	-21.8	-5.4	4.8
BEYOND-FIRST-YEAR STUDENTS........	4,402	4,439	3,638	3,005	.8	-18.0	-17.4
FOREIGN STUDENTS, TOTAL.............	1,070	1,121	1,227	1,202	4.8	9.5	-2.0
FIRST-YEAR STUDENTS................	451	489	525	456	8.4	7.4	-13.1
BEYOND-FIRST-YEAR STUDENTS........	619	632	702	746	2.1	11.1	6.3
RESEARCH ASSISTANTSHIPS, TOTAL........	7,668	7,735	7,731	8,081	.9	-.1	4.5
FIRST-YEAR STUDENTS..................	2,174	1,963	1,888	2,027	-9.7	-3.8	7.4
BEYOND-FIRST-YEAR STUDENTS..........	5,494	5,772	5,843	6,054	5.1	1.2	3.6
U. S. CITIZENS, TOTAL...............	4,795	4,457	4,115	4,289	-7.0	-7.7	4.2
FIRST-YEAR STUDENTS................	1,430	1,126	1,033	1,252	-21.3	-8.3	21.2
BEYOND-FIRST-YEAR STUDENTS........	3,365	3,331	3,082	3,037	-1.0	-7.5	-1.5
FOREIGN STUDENTS, TOTAL.............	2,873	3,278	3,616	3,792	14.1	10.3	4.9
FIRST-YEAR STUDENTS................	744	837	855	775	12.5	2.2	-9.4
BEYOND-FIRST-YEAR STUDENTS........	2,129	2,441	2,761	3,017	14.7	13.1	9.3
TEACHING ASSISTANTSHIPS, TOTAL........	3,369	3,439	3,636	3,777	2.1	5.7	3.9
FIRST-YEAR STUDENTS..................	1,372	1,288	1,279	1,212	-6.1	-.7	-5.2
BEYOND-FIRST-YEAR STUDENTS..........	1,997	2,151	2,357	2,565	7.7	9.6	8.8
U. S. CITIZENS, TOTAL...............	2,301	2,166	2,110	2,230	-5.9	-2.6	5.7
FIRST-YEAR STUDENTS................	1,005	822	754	832	-18.2	-8.3	10.3
BEYOND-FIRST-YEAR STUDENTS........	1,296	1,344	1,356	1,398	3.7	.9	3.1
FOREIGN STUDENTS, TOTAL.............	1,068	1,273	1,526	1,547	19.2	19.9	1.4
FIRST-YEAR STUDENTS................	367	466	525	380	27.0	12.7	-27.6
BEYOND-FIRST-YEAR STUDENTS........	701	807	1,001	1,167	15.1	24.0	16.6
OTHER TYPES OF MAJOR SUPPORT, TOTAL.....	7,151	7,140	8,106	8,732	-.2	13.5	7.7
FIRST-YEAR STUDENTS..................	4,175	3,773	4,401	4,733	-9.6	16.6	7.5
BEYOND-FIRST-YEAR STUDENTS..........	2,976	3,367	3,705	3,999	13.1	10.0	7.9
U. S. CITIZENS, TOTAL...............	5,032	4,648	5,156	5,444	-7.6	10.9	5.6
FIRST-YEAR STUDENTS................	2,872	2,257	2,598	2,826	-21.4	15.1	8.8
BEYOND-FIRST-YEAR STUDENTS........	2,160	2,391	2,558	2,618	10.7	7.0	2.3
FOREIGN STUDENTS, TOTAL.............	2,119	2,492	2,950	3,288	17.6	18.4	11.5
FIRST-YEAR STUDENTS................	1,303	1,516	1,803	1,907	16.3	18.9	5.8
BEYOND-FIRST-YEAR STUDENTS........	816	976	1,147	1,381	19.6	17.5	20.4

TABLE C-15C. FULL-TIME GRADUATE STUDENTS IN PHYSICAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY LEVEL OF STUDY, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1967-70

ITEM	NUMBER				PERCENT CHANGE		
	1967	1968	1969	1970	1967-68	1968-69	1969-70
ALL SCIENCES, TOTAL	28,411	28,816	27,904	26,782	1.4	-3.2	-4.0
FIRST-YEAR STUDENTS	7,682	7,198	7,342	6,657	-6.3	2.0	-9.3
BEYOND-FIRST-YEAR STUDENTS	20,729	21,618	20,562	20,125	4.3	-4.9	-2.1
CITIZENSHIP							
U. S. CITIZENS, TOTAL	24,098	24,098	22,602	21,440	a/	-6.2	-5.1
FIRST-YEAR STUDENTS	6[illegible]21	5,836	5,784	5,300	-9.1	-.9	-8.4
BEYOND-FIRST-YEAR STUDENTS	1[illegible]77	18,262	16,818	16,140	3.3	-7.9	-4.0
FOREIGN STUDENTS, TOTAL	4,313	4,718	5,302	5,342	9.4	12.4	.8
FIRST-YEAR STUDENTS	1,261	1,362	1,558	1,357	8.0	14.4	-12.9
BEYOND-FIRST-YEAR STUDENTS	3,052	3,356	3,744	3,985	10.0	11.6	6.4
TYPE OF MAJOR SUPPORT							
FELLOWSHIPS AND TRAINEESHIPS, TOTAL	7,747	7,605	6,523	5,579	-1.8	-14.2	-14.5
FIRST-YEAR STUDENTS	1,976	1,559	1,547	1,416	-21.1	-.8	-8.5
BEYOND-FIRST-YEAR STUDENTS	5,771	6,046	4,976	4,163	4.8	-17.7	-16.3
U. S. CITIZENS, TOTAL	7,098	6,903	5,794	4,888	-2.7	-16.1	-15.6
FIRST-YEAR STUDENTS	1,764	1,356	1,304	1,219	-23.1	-3.8	-6.5
BEYOND-FIRST-YEAR STUDENTS	5,334	5,547	4,490	3,669	4.0	-19.1	-18.3
FOREIGN STUDENTS, TOTAL	649	702	729	691	8.2	3.8	-5.2
FIRST-YEAR STUDENTS	212	203	243	197	-4.2	19.7	-18.9
BEYOND-FIRST-YEAR STUDENTS	437	499	486	494	14.2	-2.6	1.6
RESEARCH ASSISTANTSHIPS, TOTAL	8,929	8,719	8,820	8,376	-2.4	1.2	-5.0
FIRST-YEAR STUDENTS	741	627	773	685	-15.4	23.3	-11.4
BEYOND-FIRST-YEAR STUDENTS	8,188	8,092	8,047	7,691	-1.2	-.6	-4.4
U. S. CITIZENS, TOTAL	7,306	7,048	6,862	6,503	-3.5	-2.6	-5.2
FIRST-YEAR STUDENTS	560	457	551	505	-18.4	20.6	-8.3
BEYOND-FIRST-YEAR STUDENTS	6,746	6,591	6,311	5,998	-2.3	-4.2	-5.0
FOREIGN STUDENTS, TOTAL	1,623	1,671	1,958	1,873	3.0	17.2	-4.3
FIRST-YEAR STUDENTS	181	170	222	180	-6.1	30.6	-18.9
BEYOND-FIRST-YEAR STUDENTS	1,442	1,501	1,736	1,693	4.1	15.7	-2.5
TEACHING ASSISTANTSHIPS, TOTAL	9,018	9,475	9,423	9,788	5.1	-.5	3.9
FIRST-YEAR STUDENTS	3,865	3,859	3,798	3,466	-.2	-1.6	-8.7
BEYOND-FIRST-YEAR STUDENTS	5,153	5,616	5,625	6,322	9.0	.2	12.4

U. S. CITIZENS, TOTAL................	7,098	6,903	5,794	4,888	-2.7	-16.1	-15.6
FIRST-YEAR STUDENTS................	1,764	1,356	1,304	1,219	-23.1	-3.8	-6.5
BEYOND-FIRST-YEAR STUDENTS........	5,334	5,547	4,490	3,669	4.0	-19.1	-18.3
FOREIGN STUDENTS, TOTAL.............	649	702	729	691	8.2	3.8	-5.2
FIRST-YEAR STUDENTS................	212	203	243	197	-4.2	19.7	-18.9
BEYOND-FIRST-YEAR STUDENTS........	437	499	486	494	14.2	-2.6	1.6
RESEARCH ASSISTANTSHIPS, TOTAL........	8,929	8,719	8,820	8,376	-2.4	1.2	-5.0
FIRST-YEAR STUDENTS..................	741	627	773	685	-15.4	23.3	-11.4
BEYOND-FIRST-YEAR STUDENTS..........	8,188	8,092	8,047	7,691	-1.2	-.6	-4.4
U. S. CITIZENS, TOTAL................	7,306	7,048	6,862	6,503	-3.5	-2.6	-5.2
FIRST-YEAR STUDENTS................	560	457	551	505	-18.4	20.6	-8.3
BEYOND-FIRST-YEAR STUDENTS........	6,746	6,591	6,311	5,998	-2.3	-4.2	-5.0
FOREIGN STUDENTS, TOTAL.............	1,623	1,671	1,958	1,873	3.0	17.2	-4.3
FIRST-YEAR STUDENTS................	181	170	222	180	-6.1	30.6	-18.9
BEYOND-FIRST-YEAR STUDENTS........	1,442	1,501	1,736	1,693	4.1	15.7	-2.5
TEACHING ASSISTANTSHIPS, TOTAL........	9,018	9,475	9,423	9,788	5.1	-.5	3.9
FIRST-YEAR STUDENTS..................	3,865	3,859	3,798	3,466	-.2	-1.6	-8.7
BEYOND-FIRST-YEAR STUDENTS..........	5,153	5,616	5,625	6,322	9.0	.2	12.4
U. S. CITIZENS, TOTAL................	7,411	7,618	7,459	7,606	2.8	-2.1	2.0
FIRST-YEAR STUDENTS................	3,194	3,114	3,058	2,778	-2.5	-1.8	-9.2
BEYOND-FIRST-YEAR STUDENTS........	4,217	4,504	4,401	4,828	6.8	-2.3	9.7
FOREIGN STUDENTS, TOTAL.............	1,607	1,857	1,964	2,182	15.6	5.8	11.1
FIRST-YEAR STUDENTS................	671	745	740	688	11.0	-.7	-7.0
BEYOND-FIRST-YEAR STUDENTS........	936	1,112	1,224	1,494	18.8	10.1	22.1
OTHER TYPES OF MAJOR SUPPORT, TOTAL.....	2,717	3,017	3,138	3,039	11.0	4.0	-3.2
FIRST-YEAR STUDENTS..................	1,100	1,153	1,224	1,090	4.8	6.2	-10.9
BEYOND-FIRST-YEAR STUDENTS..........	1,617	1,864	1,914	1,949	15.3	2.7	1.8
U. S. CITIZENS, TOTAL................	2,283	2,529	2,487	2,443	10.8	-1.7	-1.8
FIRST-YEAR STUDENTS................	903	909	871	798	.7	-4.2	-8.4
BEYOND-FIRST-YEAR STUDENTS........	1,380	1,620	1,616	1,645	17.4	-.2	1.8
FOREIGN STUDENTS, TOTAL.............	434	488	651	596	12.4	33.4	-8.4
FIRST-YEAR STUDENTS................	197	244	353	292	23.9	44.7	-17.3
BEYOND-FIRST-YEAR STUDENTS........	237	244	298	304	3.0	22.1	2.0

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a/ Percent change is not shown when base is 50 or less.

TABLE C-15D. FULL-TIME GRADUATE STUDENTS IN MATHEMATICAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY LEVEL OF STUDY, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1967-70

ITEM	NUMBER				PERCENT CHANGE		
	1967	1968	1969	1970	1967-68	1968-69	1969-70
ALL SCIENCES, TOTAL....................	10,401	10,493	10,351	10,288	0.9	-1.4	-0.6
FIRST-YEAR STUDENTS....................	3,692	3,498	3,634	3,469	-5.3	3.9	-4.5
BEYOND-FIRST-YEAR STUDENTS............	6,709	6,995	6,717	6,819	4.3	-4.0	1.5
CITIZENSHIP							
U. S. CITIZENS, TOTAL..................	9,040	8,906	8,517	8,400	-1.5	-4.4	-1.4
FIRST-YEAR STUDENTS..................	3,283	2,985	3,033	2,954	-9.1	1.6	-2.6
BEYOND-FIRST-YEAR STUDENTS..........	5,757	5,921	5,484	5,446	2.8	-7.4	-.7
FOREIGN STUDENTS, TOTAL................	1,361	1,587	1,834	1,888	16.6	15.6	2.9
FIRST-YEAR STUDENTS..................	409	513	601	515	25.4	17.2	-14.3
BEYOND-FIRST-YEAR STUDENTS..........	952	1,074	1,233	1,373	12.8	14.8	11.4
TYPE OF MAJOR SUPPORT							
FELLOWSHIPS AND TRAINEESHIPS, TOTAL...	2,701	2,791	2,450	2,117	3.3	-12.2	-13.6
FIRST-YEAR STUDENTS..................	955	809	824	792	-15.3	1.9	-3.9
BEYOND-FIRST-YEAR STUDENTS..........	1,746	1,982	1,626	1,325	13.5	-18.0	-18.5
U. S. CITIZENS, TOTAL...............	2,500	2,535	2,141	1,855	1.4	-15.5	-13.4
FIRST-YEAR STUDENTS...............	876	714	692	701	-18.5	-3.1	1.3
BEYOND-FIRST-YEAR STUDENTS........	1,624	1,821	1,449	1,154	12.1	-20.4	-20.4
FOREIGN STUDENTS, TOTAL.............	201	256	309	262	27.4	20.7	-15.2
FIRST-YEAR STUDENTS...............	79	95	132	91	20.3	38.9	-31.1
BEYOND-FIRST-YEAR STUDENTS........	122	161	177	171	32.0	9.9	-3.4
RESEARCH ASSISTANTSHIPS, TOTAL........	969	896	947	992	-7.5	5.7	4.8
FIRST-YEAR STUDENTS..................	149	139	152	175	-6.7	9.4	15.1
BEYOND-FIRST-YEAR STUDENTS..........	820	757	795	817	-7.7	5.0	2.8
U. S. CITIZENS, TOTAL...............	744	640	657	653	-14.0	2.7	-.6
FIRST-YEAR STUDENTS...............	114	94	94	113	-17.5	[a]	20.2
BEYOND-FIRST-YEAR STUDENTS........	630	546	563	540	-13.3	3.1	-4.1
FOREIGN STUDENTS, TOTAL.............	225	256	290	339	13.8	13.3	16.9
FIRST-YEAR STUDENTS...............	35	45	58	62	[a]	[a]	6.9
BEYOND-FIRST-YEAR STUDENTS........	190	211	232	277	11.1	10.0	19.4
TEACHING ASSISTANTSHIPS, TOTAL........	4,213	4,389	4,377	4,758	4.2	-.3	8.7
FIRST-YEAR STUDENTS..................	1,408	1,336	1,396	1,415	-5.1	4.5	1.4
BEYOND-FIRST-YEAR STUDENTS..........	2,805	3,053	2,981	3,343	8.8	-2.4	12.1

FIRST-YEAR STUDENTS..................	955	809	824	792	-15.3	1.9	-3.9
BEYOND-FIRST-YEAR STUDENTS..........	1,746	1,982	1,626	1,325	13.5	-18.0	-18.5
U. S. CITIZENS, TOTAL................	2,500	2,535	2,141	1,855	1.4	-15.5	-13.4
FIRST-YEAR STUDENTS................	876	714	692	701	-18.5	-3.1	1.3
BEYOND-FIRST-YEAR STUDENTS........	1,624	1,821	1,449	1,154	12.1	-20.4	-20.4
FOREIGN STUDENTS, TOTAL.............	201	256	309	262	27.4	20.7	-15.2
FIRST-YEAR STUDENTS................	79	95	132	91	20.3	38.9	-31.1
BEYOND-FIRST-YEAR STUDENTS........	122	161	177	171	32.0	9.9	-3.4
RESEARCH ASSISTANTSHIPS, TOTAL........	969	896	947	992	-7.5	5.7	4.8
FIRST-YEAR STUDENTS..................	149	139	152	175	-6.7	9.4	15.1
BEYOND-FIRST-YEAR STUDENTS..........	820	757	795	817	-7.7	5.0	2.8
U. S. CITIZENS, TOTAL................	744	640	657	653	-14.0	2.7	-.6
FIRST-YEAR STUDENTS................	114	94	94	113	-17.5	b/	20.2
BEYOND-FIRST-YEAR STUDENTS........	630	546	563	540	-13.3	3.1	-4.1
FOREIGN STUDENTS, TOTAL.............	225	256	290	339	13.8	13.3	16.9
FIRST-YEAR STUDENTS................	35	45	58	62	a/	a/	6.9
BEYOND-FIRST-YEAR STUDENTS........	190	211	232	277	11.1	10.0	19.4
TEACHING ASSISTANTSHIPS, TOTAL........	4,213	4,389	4,377	4,758	4.2	-.3	8.7
FIRST-YEAR STUDENTS..................	1,408	1,336	1,396	1,415	-5.1	4.5	1.4
BEYOND-FIRST-YEAR STUDENTS..........	2,805	3,053	2,981	3,343	8.8	-2.4	12.1
U. S. CITIZENS, TOTAL................	3,599	3,696	3,546	3,881	2.7	-4.1	9.4
FIRST-YEAR STUDENTS................	1,251	1,147	1,161	1,203	-8.3	1.2	3.6
BEYOND-FIRST-YEAR STUDENTS........	2,348	2,549	2,385	2,678	8.6	-6.4	12.3
FOREIGN STUDENTS, TOTAL.............	614	693	831	877	12.9	19.9	5.5
FIRST-YEAR STUDENTS................	157	189	235	212	20.4	24.3	-9.8
BEYOND-FIRST-YEAR STUDENTS........	457	504	596	665	10.3	18.3	11.6
OTHER TYPES OF MAJOR SUPPORT, TOTAL.....	2,518	2,417	2,577	2,421	-4.0	6.6	-6.1
FIRST-YEAR STUDENTS..................	1,180	1,214	1,262	1,087	2.9	4.0	-13.9
BEYOND-FIRST-YEAR STUDENTS..........	1,338	1,203	1,315	1,334	-10.1	9.3	1.4
U. S. CITIZENS, TOTAL................	2,197	2,035	2,173	2,011	-7.4	6.8	-7.5
FIRST-YEAR STUDENTS................	1,042	1,030	1,086	937	-1.2	5.4	-13.7
BEYOND-FIRST-YEAR STUDENTS........	1,155	1,005	1,087	1,074	-13.0	8.2	-1.2
FOREIGN STUDENTS, TOTAL.............	321	382	404	410	19.0	5.8	1.5
FIRST-YEAR STUDENTS................	138	184	176	150	33.3	-4.3	-14.8
BEYOND-FIRST-YEAR STUDENTS........	183	198	228	260	8.2	15.2	14.0

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a/ Percent change is not shown when base is 50 or less.
b/ Less than 0.05 percent.

TABLE C-15E. FULL-TIME GRADUATE STUDENTS IN LIFE SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY LEVEL OF STUDY, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1967-70

ITEM	NUMBER				PERCENT CHANGE		
	1967	1968	1969	1970	1967-68	1968-69	1969-70
ALL SCIENCES, TOTAL	19,501	20,097	20,439	20,488	3.1	1.7	0.2
FIRST-YEAR STUDENTS	5,829	5,662	6,054	5,923	-2.9	6.9	-2.2
BEYOND-FIRST-YEAR STUDENTS	13,672	14,435	14,384	14,565	5.6	-.4	1.3
CITIZENSHIP							
U. S. CITIZENS, TOTAL	16,709	17,169	17,399	17,473	2.8	1.3	.4
FIRST-YEAR STUDENTS	5,048	4,810	5,165	5,116	-4.7	7.4	-.9
BEYOND-FIRST-YEAR STUDENTS	11,661	12,359	12,233	12,357	6.0	-1.0	1.0
FOREIGN STUDENTS, TOTAL	2,792	2,928	3,040	3,015	4.9	3.8	-.8
FIRST-YEAR STUDENTS	781	852	889	807	9.1	4.3	-9.2
BEYOND-FIRST-YEAR STUDENTS	2,011	2,076	2,151	2,208	3.2	3.6	2.6
TYPE OF MAJOR SUPPORT							
FELLOWSHIPS AND TRAINEESHIPS, TOTAL	6,993	7,377	7,291	6,761	5.5	-1.2	-7.3
FIRST-YEAR STUDENTS	1,817	1,644	1,651	1,517	-9.5	.4	-8.1
BEYOND-FIRST-YEAR STUDENTS	5,176	5,733	5,639	5,244	10.8	-1.6	-7.0
U. S. CITIZENS, TOTAL	6,325	6,664	6,580	6,015	5.4	-1.3	-8.6
FIRST-YEAR STUDENTS	1,607	1,431	1,448	1,309	-11.0	1.2	-9.6
BEYOND-FIRST-YEAR STUDENTS	4,718	5,233	5,131	4,706	10.9	-1.9	-8.3
FOREIGN STUDENTS, TOTAL	668	713	711	746	6.7	-.3	4.9
FIRST-YEAR STUDENTS	210	213	203	208	1.4	-4.7	2.5
BEYOND-FIRST-YEAR STUDENTS	458	500	508	538	9.2	1.6	5.9
RESEARCH ASSISTANTSHIPS, TOTAL	4,961	4,832	4,543	4,547	-2.6	-6.0	.1
FIRST-YEAR STUDENTS	1,139	1,114	1,099	1,000	-2.2	-1.3	-9.0
BEYOND-FIRST-YEAR STUDENTS	3,822	3,718	3,444	3,547	-2.7	-7.4	3.0
U. S. CITIZENS, TOTAL	3,815	3,656	3,412	3,482	-4.2	-6.7	2.1
FIRST-YEAR STUDENTS	900	845	849	806	-6.1	.5	-5.1
BEYOND-FIRST-YEAR STUDENTS	2,915	2,811	2,563	2,676	-3.6	-8.8	4.4
FOREIGN STUDENTS, TOTAL	1,146	1,176	1,131	1,065	2.6	-3.8	-5.8
FIRST-YEAR STUDENTS	239	269	250	194	12.6	-7.1	-22.4
BEYOND-FIRST-YEAR STUDENTS	907	907	881	871	b/	-2.9	-1.1
TEACHING ASSISTANTSHIPS, TOTAL	4,168	4,336	4,655	4,823	4.0	7.4	3.6
FIRST-YEAR STUDENTS	1,443	1,410	1,570	1,538	-2.3	11.3	-2.0

BEYOND-FIRST-YEAR STUDENTS..........	5,176	5,733	5,639	5,244	10.8	-1.6	-7.0
U. S. CITIZENS, TOTAL...............	6,325	6,664	6,580	6,015	5.4	-1.3	-8.6
FIRST-YEAR STUDENTS................	1,607	1,431	1,448	1,309	-11.0	1.2	-9.6
BEYOND-FIRST-YEAR STUDENTS........	4,718	5,233	5,131	4,706	10.9	-1.9	-8.3
FOREIGN STUDENTS, TOTAL.............	668	713	711	746	6.7	-.3	4.9
FIRST-YEAR STUDENTS................	210	213	203	208	1.4	-4.7	2.5
BEYOND-FIRST-YEAR STUDENTS........	458	500	508	538	9.2	1.6	5.9
RESEARCH ASSISTANTSHIPS, TOTAL........	4,961	4,832	4,543	4,547	-2.6	-6.0	.1
FIRST-YEAR STUDENTS.................	1,139	1,114	1,099	1,000	-2.2	-1.3	-9.0
BEYOND-FIRST-YEAR STUDENTS..........	3,822	3,718	3,444	3,547	-2.7	-7.4	3.0
U. S. CITIZENS, TOTAL...............	3,815	3,656	3,412	3,482	-4.2	-6.7	2.1
FIRST-YEAR STUDENTS................	900	845	849	806	-6.1	.5	-5.1
BEYOND-FIRST-YEAR STUDENTS........	2,915	2,811	2,563	2,676	-3.6	-8.8	4.4
FOREIGN STUDENTS, TOTAL.............	1,146	1,176	1,131	1,065	2.6	-3.8	-5.8
FIRST-YEAR STUDENTS................	239	269	250	194	12.6	-7.1	-22.4
BEYOND-FIRST-YEAR STUDENTS........	907	907	881	871	b/	-2.9	-1.1
TEACHING ASSISTANTSHIPS, TOTAL........	4,168	4,336	4,655	4,823	4.0	7.4	3.6
FIRST-YEAR STUDENTS.................	1,443	1,410	1,570	1,538	-2.3	11.3	-2.0
BEYOND-FIRST-YEAR STUDENTS..........	2,725	2,926	3,085	3,285	7.4	5.4	6.5
U. S. CITIZENS, TOTAL...............	3,745	3,835	4,109	4,265	2.4	7.1	3.8
FIRST-YEAR STUDENTS................	1,306	1,270	1,399	1,413	-2.8	10.2	1.0
BEYOND-FIRST-YEAR STUDENTS........	2,439	2,565	2,710	2,852	5.2	5.7	5.2
FOREIGN STUDENTS, TOTAL.............	423	501	546	558	18.4	9.0	2.2
FIRST-YEAR STUDENTS................	137	140	171	125	2.2	22.1	-26.9
BEYOND-FIRST-YEAR STUDENTS........	286	361	375	433	26.2	3.9	15.5
OTHER TYPES OF MAJOR SUPPORT, TOTAL.....	3,379	3,552	3,950	4,357	5.1	11.2	10.3
FIRST-YEAR STUDENTS.................	1,430	1,494	1,734	1,868	4.5	16.1	7.7
BEYOND-FIRST-YEAR STUDENTS..........	1,949	2,058	2,216	2,489	5.6	7.7	12.3
U. S. CITIZENS, TOTAL...............	2,824	3,014	3,298	3,711	6.7	9.4	12.5
FIRST-YEAR STUDENTS................	1,235	1,264	1,469	1,588	2.3	16.2	8.1
BEYOND-FIRST-YEAR STUDENTS........	1,589	1,750	1,829	2,123	10.1	4.5	16.1
FOREIGN STUDENTS, TOTAL.............	555	538	652	646	-3.1	21.2	-.9
FIRST-YEAR STUDENTS................	195	230	265	280	17.9	15.2	5.7
BEYOND-FIRST-YEAR STUDENTS........	360	308	387	366	-14.4	25.6	-5.4

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b/ Less than 0.05 percent.

TABLE C-15F. FULL-TIME GRADUATE STUDENTS IN PSYCHOLOGY DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY LEVEL OF STUDY, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1967-70

ITEM	NUMBER				PERCENT CHANGE		
	1967	1968	1969	1970	1967-68	1968-69	1969-70
ALL SCIENCES, TOTAL....................	9,051	9,909	10.498	10,638	9.5	5.9	1.3
FIRST-YEAR STUDENTS...................	2,920	2,999	3,161	3,005	2.7	5.4	-4.9
BEYOND-FIRST-YEAR STUDENTS............	6,131	6,910	7,337	7,633	12.7	6.2	4.0
CITIZENSHIP							
U. S. CITIZENS, TOTAL.................	8,714	9,562	10,059	10,224	9.7	5.2	1.6
FIRST-YEAR STUDENTS.................	2,800	2,887	3,030	2,894	3.1	5.0	-4.5
BEYOND-FIRST-YEAR STUDENTS..........	5,914	6,675	7,029	7,330	12.9	5.3	4.3
FOREIGN STUDENTS, TOTAL...............	337	347	439	414	3.0	26.5	-5.7
FIRST-YEAR STUDENTS.................	120	112	131	111	-6.7	17.0	-15.3
BEYOND-FIRST-YEAR STUDENTS..........	217	235	308	303	8.3	31.1	-1.6
TYPE OF MAJOR SUPPORT							
FELLOWSHIPS AND TRAINEESHIPS, TOTAL...	3,827	4,147	4,365	4,316	8.4	5.3	-1.1
FIRST-YEAR STUDENTS.................	1,175	1,271	1,270	1,219	8.2	-.1	-4.0
BEYOND-FIRST-YEAR STUDENTS..........	2,652	2,876	3,095	3,097	8.4	7.6	.1
U. S. CITIZENS, TOTAL...............	3,733	4,060	4,265	4,206	8.8	5.0	-1.4
FIRST-YEAR STUDENTS...............	1,145	1,250	1,244	1,190	9.2	-.5	-4.3
BEYOND-FIRST-YEAR STUDENTS........	2,588	2,810	3,021	3,016	8.6	7.5	-.2
FOREIGN STUDENTS, TOTAL.............	94	87	100	110	-7.4	14.9	10.0
FIRST-YEAR STUDENTS...............	30	21	26	29	a/	a/	a/
BEYOND-FIRST-YEAR STUDENTS........	64	66	74	81	3.1	12.1	9.5
RESEARCH ASSISTANTSHIPS, TOTAL........	1,500	1,494	1,523	1,528	-.4	1.9	.3
FIRST-YEAR STUDENTS.................	481	449	511	446	-6.7	13.8	-12.7
BEYOND-FIRST-YEAR STUDENTS..........	1,019	1,045	1,012	1,082	2.6	-3.2	6.9
U. S. CITIZENS, TOTAL...............	1,402	1,394	1,412	1,424	-.6	1.3	.8
FIRST-YEAR STUDENTS...............	442	412	483	416	-6.8	17.2	-13.9
BEYOND-FIRST-YEAR STUDENTS........	960	982	929	1,008	2.3	-5.4	8.5
FOREIGN STUDENTS, TOTAL.............	98	100	111	104	2.0	11.0	-6.3
FIRST-YEAR STUDENTS...............	39	37	28	30	a/	a/	a/
BEYOND-FIRST-YEAR STUDENTS........	59	63	83	74	6.8	31.7	-10.8

U. S. CITIZENS, TOTAL	3,733	4,060	4,265	4,206	8.8	5.0	-1.4
FIRST-YEAR STUDENTS	1,145	1,250	1,244	1,190	9.2	-.5	-4.3
BEYOND-FIRST-YEAR STUDENTS	2,588	2,810	3,021	3,016	8.6	7.5	-.2
FOREIGN STUDENTS, TOTAL	94	87	100	110	-7.4	14.9	10.0
FIRST-YEAR STUDENTS	30	21	26	29	a/	a/	a/
BEYOND-FIRST-YEAR STUDENTS	64	66	74	81	3.1	12.1	9.5
RESEARCH ASSISTANTSHIPS, TOTAL	1,500	1,494	1,523	1,528	-.4	1.9	.3
FIRST-YEAR STUDENTS	481	449	511	446	-6.7	13.8	-12.7
BEYOND-FIRST-YEAR STUDENTS	1,019	1,045	1,012	1,082	2.6	-3.2	6.9
U. S. CITIZENS, TOTAL	1,402	1,394	1,412	1,424	-.6	1.3	.8
FIRST-YEAR STUDENTS	442	412	483	416	-6.8	17.2	-13.9
BEYOND-FIRST-YEAR STUDENTS	960	982	929	1,008	2.3	-5.4	8.5
FOREIGN STUDENTS, TOTAL	98	100	111	104	2.0	11.0	-6.3
FIRST-YEAR STUDENTS	39	37	28	30	a/	a/	a/
BEYOND-FIRST-YEAR STUDENTS	59	63	83	74	6.8	31.7	-10.8
TEACHING ASSISTANTSHIPS, TOTAL	1,689	1,894	2,025	2,125	12.1	6.9	4.9
FIRST-YEAR STUDENTS	521	576	604	535	10.6	4.9	-11.4
BEYOND-FIRST-YEAR STUDENTS	1,168	1,318	1,421	1,590	12.8	7.8	11.9
U. S. CITIZENS, TOTAL	1,611	1,815	1,916	2,024	12.7	5.6	5.6
FIRST-YEAR STUDENTS	502	555	572	509	10.6	3.1	-11.0
BEYOND-FIRST-YEAR STUDENTS	1,109	1,260	1,344	1,515	13.6	6.7	12.7
FOREIGN STUDENTS, TOTAL	78	79	109	101	1.3	38.0	-7.3
FIRST-YEAR STUDENTS	19	21	32	26	a/	a/	a/
BEYOND-FIRST-YEAR STUDENTS	59	58	77	75	-1.7	32.8	-2.6
OTHER TYPES OF MAJOR SUPPORT, TOTAL	2,035	2,374	2,585	2,669	16.7	8.9	3.2
FIRST-YEAR STUDENTS	743	703	776	805	-5.4	10.4	3.7
BEYOND-FIRST-YEAR STUDENTS	1,292	1,671	1,809	1,864	29.3	8.3	3.0
U. S. CITIZENS, TOTAL	1,968	2,293	2,466	2,570	16.5	7.5	4.2
FIRST-YEAR STUDENTS	711	670	731	779	-5.8	9.1	6.6
BEYOND-FIRST-YEAR STUDENTS	1,257	1,623	1,735	1,791	29.1	6.9	3.2
FOREIGN STUDENTS, TOTAL	67	81	119	99	20.9	46.9	-16.8
FIRST-YEAR STUDENTS	32	33	45	26	a/	a/	a/
BEYOND-FIRST-YEAR STUDENTS	35	48	74	73	a/	a/	-1.4

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a/ Percent change is not shown when base is 50 or less.

TABLE C-15G. FULL-TIME GRADUATE STUDENTS IN SOCIAL SCIENCE DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY LEVEL OF STUDY, CITIZENSHIP, AND TYPE OF MAJOR SUPPORT, 1967-70

ITEM	NUMBER				PERCENT CHANGE		
	1967	1968	1969	1970	1967-68	1968-69	1969-70
ALL SCIENCES, TOTAL	21,253	22,635	24,077	23,450	6.5	6.4	-2.6
FIRST-YEAR STUDENTS	7,597	7,524	8,183	7,594	-1.0	8.8	-7.2
BEYOND-FIRST-YEAR STUDENTS	13,656	15,111	15,894	15,856	10.7	5.2	-.2
CITIZENSHIP							
U. S. CITIZENS, TOTAL	17,877	18,921	20,228	19,453	5.8	6.9	-3.8
FIRST-YEAR STUDENTS	6,332	6,271	6,894	6,288	-1.0	9.9	-8.8
BEYOND-FIRST-YEAR STUDENTS	11,545	12,650	13,334	13,165	9.6	5.4	-1.3
FOREIGN STUDENTS, TOTAL	3,376	3,714	3,849	3,997	10.0	3.6	3.8
FIRST-YEAR STUDENTS	1,265	1,253	1,289	1,306	-.9	2.9	1.3
BEYOND-FIRST-YEAR STUDENTS	2,111	2,461	2,560	2,691	16.6	4.0	5.1
TYPE OF MAJOR SUPPORT							
FELLOWSHIPS AND TRAINEESHIPS, TOTAL	7,755	8,185	8,052	7,654	5.5	-1.6	-4.9
FIRST-YEAR STUDENTS	2,798	2,577	2,569	2,356	-7.9	-.3	-8.3
BEYOND-FIRST-YEAR STUDENTS	4,957	5,608	5,483	5,298	13.1	-2.2	-3.4
U. S. CITIZENS, TOTAL	6,422	6,806	6,682	6,163	6.0	-1.8	-7.8
FIRST-YEAR STUDENTS	2,233	2,092	2,088	1,829	-6.3	-.2	-12.4
BEYOND-FIRST-YEAR STUDENTS	4,189	4,714	4,594	4,334	12.5	-2.5	-5.7
FOREIGN STUDENTS, TOTAL	1,333	1,379	1,370	1,491	3.5	-.7	8.8
FIRST-YEAR STUDENTS	565	485	481	527	-14.2	-.8	9.6
BEYOND-FIRST-YEAR STUDENTS	768	894	889	964	16.4	-.6	8.4
RESEARCH ASSISTANTSHIPS, TOTAL	2,348	2,380	2,282	2,229	1.4	-4.1	-2.3
FIRST-YEAR STUDENTS	647	606	630	650	-6.3	4.0	3.2
BEYOND-FIRST-YEAR STUDENTS	1,701	1,774	1,652	1,579	4.3	-6.9	-4.4
U. S. CITIZENS, TOTAL	1,902	1,893	1,780	1,726	-.5	-6.0	-3.0
FIRST-YEAR STUDENTS	534	479	512	520	-10.3	6.9	1.6
BEYOND-FIRST-YEAR STUDENTS	1,368	1,414	1,268	1,206	3.4	-10.3	-4.9
FOREIGN STUDENTS, TOTAL	446	487	502	503	9.2	3.1	.2
FIRST-YEAR STUDENTS	113	127	118	130	12.4	-7.1	10.2
BEYOND-FIRST-YEAR STUDENTS	333	360	384	373	8.1	6.7	-2.9
TEACHING ASSISTANTSHIPS, TOTAL	3,949	4,160	4,552	4,597	5.3	9.4	1.0
FIRST-YEAR STUDENTS	941	970	1,084	960	3.1	11.8	-11.4

U. S. CITIZENS, TOTAL...............	6,422	6,806	6,682	6,163	6.0	-1.8	-7.8
FIRST-YEAR STUDENTS...............	2,233	2,092	2,088	1,829	-6.3	-.2	-12.4
BEYOND-FIRST-YEAR STUDENTS........	4,189	4,714	4,594	4,334	12.5	-2.5	-5.7
FOREIGN STUDENTS, TOTAL.............	1,333	1,379	1,370	1,491	3.5	-.7	8.8
FIRST-YEAR STUDENTS...............	565	485	481	527	-14.2	-.8	9.6
BEYOND-FIRST-YEAR STUDENTS........	768	894	889	964	16.4	-.6	8.4
RESEARCH ASSISTANTSHIPS, TOTAL........	2,348	2,380	2,282	2,229	1.4	-4.1	-2.3
FIRST-YEAR STUDENTS.................	647	606	630	650	-6.3	4.0	3.2
BEYOND-FIRST-YEAR STUDENTS..........	1,701	1,774	1,652	1,579	4.3	-6.9	-4.4
U. S. CITIZENS, TOTAL...............	1,902	1,893	1,780	1,726	-.5	-6.0	-3.0
FIRST-YEAR STUDENTS...............	534	479	512	520	-10.3	6.9	1.6
BEYOND-FIRST-YEAR STUDENTS........	1,368	1,414	1,268	1,206	3.4	-10.3	-4.9
FOREIGN STUDENTS, TOTAL.............	446	487	502	503	9.2	3.1	.2
FIRST-YEAR STUDENTS...............	113	127	118	130	12.4	-7.1	10.2
BEYOND-FIRST-YEAR STUDENTS........	333	360	384	373	8.1	6.7	-2.9
TEACHING ASSISTANTSHIPS, TOTAL........	3,949	4,160	4,552	4,597	5.3	9.4	1.0
FIRST-YEAR STUDENTS.................	941	970	1,084	960	3.1	11.8	-11.4
BEYOND-FIRST-YEAR STUDENTS..........	3,008	3,190	3,468	3,637	6.1	8.7	4.9
U. S. CITIZENS, TOTAL...............	3,417	3,539	3,840	3,909	3.6	8.5	1.8
FIRST-YEAR STUDENTS...............	825	814	903	832	-1.3	10.9	-7.9
BEYOND-FIRST-YEAR STUDENTS........	2,592	2,725	2,937	3,077	5.1	7.8	4.8
FOREIGN STUDENTS, TOTAL.............	532	621	712	688	16.7	14.7	-3.4
FIRST-YEAR STUDENTS...............	116	156	181	128	34.5	16.0	-29.3
BEYOND-FIRST-YEAR STUDENTS........	416	465	531	560	11.8	14.2	5.5
OTHER TYPES OF MAJOR SUPPORT, TOTAL.....	7,201	7,910	9,191	8,970	9.8	16.2	-2.4
FIRST-YEAR STUDENTS.................	3,211	3,371	3,900	3,628	5.0	15.7	-7.0
BEYOND-FIRST-YEAR STUDENTS..........	3,990	4,539	5,291	5,342	13.8	16.6	1.0
U. S. CITIZENS, TOTAL...............	6,136	6,683	7,926	7,655	8.9	18.6	-3.4
FIRST-YEAR STUDENTS...............	2,740	2,886	3,391	3,107	5.3	17.5	-8.4
BEYOND-FIRST-YEAR STUDENTS........	3,396	3,797	4,535	4,548	11.8	19.4	.3
FOREIGN STUDENTS, TOTAL.............	1,065	1,227	1,265	1,315	15.2	3.1	4.0
FIRST-YEAR STUDENTS...............	471	485	509	521	3.0	4.9	2.4
BEYOND-FIRST-YEAR STUDENTS........	594	742	756	794	24.9	1.9	5.0

TABLE C-16. FULL-TIME FACULTY IN DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY AREA OF SCIENCE, 1967-70

AREA OF SCIENCE	NUMBER 1967	1968	1969	1970	PERCENT CHANGE 1967-68	1968-69	1969-70
			ALL FULL-TIME FACULTY				
TOTAL	40,435	42,794	44,670	45,641	5.8	4.4	2.2
ENGINEERING	8,901	9,420	9,726	9,878	5.8	3.2	1.6
PHYSICAL SCIENCES	8,831	9,310	9,644	9,723	5.4	3.6	.8
MATHEMATICAL SCIENCES	4,597	4,961	5,057	5,214	7.9	1.9	3.1
LIFE SCIENCES	8,749	9,166	9,713	9,977	4.8	6.0	2.7
PSYCHOLOGY	2,602	2,783	2,987	3,158	7.0	7.3	5.7
SOCIAL SCIENCES	6,755	7,154	7,543	7,691	5.9	5.4	2.0
			GRADUATE FACULTY				
TOTAL	32,639	35,575	37,682	39,143	9.0	5.9	3.9
ENGINEERING	7,060	7,646	8,138	8,319	8.3	6.4	2.2
PHYSICAL SCIENCES	7,609	8,178	8,594	8,749	7.5	5.1	1.8
MATHEMATICAL SCIENCES	3,455	3,832	3,993	4,229	10.9	4.2	5.9
LIFE SCIENCES	7,061	7,645	8,065	8,381	8.3	5.5	3.9
PSYCHOLOGY	2,130	2,444	2,614	2,884	14.7	7.0	10.3
SOCIAL SCIENCES	5,324	5,830	6,278	6,581	9.5	7.7	4.8

TABLE C-17. POSTDOCTORALS IN DOCTORATE DEPARTMENTS REPORTING CONSISTENTLY FOR FOUR YEARS, BY AREA OF SCIENCE, 1967-70

AREA OF SCIENCE	NUMBER 1967	1968	1969	1970	PERCENT CHANGE 1967-68	1968-69	1969-70
			ALL POSTDOCTORAL APPOINTEES				
TOTAL	6,408	6,683	7,230	7,271	4.3	8.2	.6
ENGINEERING	594	603	663	657	1.5	10.0	-.9
PHYSICAL SCIENCES	3,320	3,492	3,640	3,559	5.2	4.2	-2.2
MATHEMATICAL SCIENCES	201	198	203	209	-1.5	2.5	3.0
LIFE SCIENCES	1,904	1,971	2,273	2,422	3.5	15.3	6.6
PSYCHOLOGY	169	208	217	229	23.1	4.3	5.5
SOCIAL SCIENCES	220	211	234	195	-4.1	10.9	-16.7
			RECENT POSTDOCTORALS				
TOTAL	4,665	4,577	4,901	4,959	-1.9	7.1	1.2
ENGINEERING	406	355	416	397	-12.6	17.2	-4.6
PHYSICAL SCIENCES	2,718	2,697	2,808	2,722	-.8	4.1	-3.1
MATHEMATICAL SCIENCES	111	119	130	141	7.2	9.2	8.5
LIFE SCIENCES	1,220	1,200	1,331	1,469	-1.6	10.9	10.4
PSYCHOLOGY	94	127	129	142	35.1	1.6	10.1
SOCIAL SCIENCES	116	79	87	88	-31.9	10.1	1.1

APPENDIX D

INSTRUCTIONS AND CONSOLIDATED DEPARTMENTAL DATA SHEETS (NSF FORM 345) — DOCTORATE DEPARTMENTS

Table Page

D–1. All sciences, 3,071 departments 99
D–2. Engineering, 676 departments 100
D–3. Physical sciences, 523 departments 101
D–4. Mathematical sciences, 212 departments 102
D–5. Life sciences, 965 departments 103
D–6. Psychology, 152 departments 104
D–7. Social sciences, 543 departments 105

INSTRUCTIONS FOR COMPLETING THE DEPARTMENTAL DATA SHEET

For further information on the Graduate Traineeship Program, refer to the Announcement (E 70-G-6). Completed copies of the Departmental Data Sheet should be forwarded to the designated Coordinating Official at the institution. Copies of the form should be prepared in sufficient numbers and in time so that the institution can complete its review and forward three (3) copies (reproductions of the original, not carbons) of each sheet being submitted, to reach the National Science Foundation not later than October 23, 1970.

Item 5–
Give the numbers of degrees conferred between 7/1/69 and 6/30/70. Under A insert the number of bachelor's degrees (include five year professional degrees). Under B insert the number of master's degrees (excluding degrees in the teaching of science e.g. M.A.T.). Under C insert the number of master's degrees in the teaching of science (e.g., M.A.T.). Under D insert the number of doctoral degrees. Degrees awarded jointly by two or more departments should be recorded on one departmental data sheet only.

Item 6–
A full-time graduate student is defined here as a bona fide graduate student (not a regular staff member, e.g., an instructor) who is engaged entirely in training activities in his field of science; these activities may embrace any appropriate combination of study, teaching, and research. (Some institutions use the phrase "geographical full-time student" to describe such students).

A first-year graduate student is defined for this program as one who will have completed less than one normal year of graduate study as of the beginning of the Fall term of 1970. All other students should be considered beyond first level.

Insert in each appropriate box the number of students who are simultaneously (a) full-time graduate students (defined above), (b) enrolled in an advanced degree program, and (c) receiving a total stipend of $1200 or more–not counting tuition and excluding personal, family and loan sources–during the 1970-1971 academic year.

All students meeting criteria (a) and (b), but not (c), should be counted under "Self, Loans and Family." Full-time graduate students working for an advanced degree who are employees of another organization, on leave of absence, and whose major support is provided by their employer, should be listed by type of employer (e.g., industry). If a graduate student receives stipend support from more than one source, choose the major source. For cases of two or more equivalent sources choose one major source category so that using only whole numbers the departmental data sheet will give a reasonably accurate average support picture for the department.

Care should be used in listing support sources accurately so that students (particularly research assistants) supported under U. S. Government grants are listed under the appropriate U. S. Government agency (e.g. students supported on a AEC research grant should appear under AEC and students supported under an NSF Institutional Grant should appear under NSF, not under "This Institution").

Each row total given under ALL SOURCES is to be split into two components, First Year and Beyond First. Thus every full-time graduate student enrolled for an advanced degree is counted only once by major source of support and once again in a separate breakout by level (First Year or Beyond First) of study.

Item 8–
These students are often called "special" or "non-degree" students. "Special" or "non-degree" students are those students possessing an undergraduate degree who are enrolled in one or more graduate courses in the department Fall 1970, but who are not enrolled for an advanced degree (they have not been admitted to graduate school).

Item 9–
The numbers of graduate students who are working for advanced degrees, but who are not pursuing graduate work full-time are enumerated under the four entries for part-time. Do not include "special" students who are not enrolled for advanced degrees (given in item 8) or students who have left your institution but are completing their theses while engaged in other activities.

Item 10–
For items A, B, and C, only faculty of academic rank of instructor or above, who are significantly involved (i.e., teaching one or more courses or seminars and/or directing the research of one or more students) in the graduate and/or undergraduate academic program of the department as of the Fall 1970 should be counted, including faculty on sabbatical leave who are expected to return. Visiting professors should not be counted. Do not count postdoctorals or research associates: they are counted under item 11. Under A, give the number of full-time faculty who are staff (including the department head) of academic rank instructor or above with a full-time appointment in the department and whose major responsibilities are with the academic programs of the department. (A faculty member should be counted as full-time in only one department). Under B, give the number of faculty included under A who do not teach any regularly scheduled courses (research professors, research associates of professorial academic rank, etc.). Under C, give the number of faculty included under A who are significantly involved in the graduate academic program of the department (i.e., teaching one or more graduate courses or seminars and/or directing the research of one or more graduate students).

Under D, give the number of part-time graduate faculty (part-time in this department), defined to include all faculty who are significantly involved in the graduate academic program (see C, above) but whose major responsibilities or activities are outside the department. Part-time will usually include senior university administrators (deans, etc.) affiliate or adjunct professors (from other departments or outside the university), professors emeriti, experiment laboratory or extension service staff, museum staff, etc.

Item 11–
Postdoctorals or Research Associates include individuals with a doctorate (including foreign degrees that are equivalent to U.S. doctorates) who devote full-time to research activities or study in the department under temporary appointments carrying no academic rank (instructor or above). Such appointments are usually for a specific time period. They may contribute to the academic program through seminars, lectures, or working with graduate students. Their postdoctoral activities have an element of additional training for them.

Under A, give the total number of Postdoctorals and/or Research Associates as defined above, as of the Fall of 1970. Of this number enter under B the number who are teaching one or more regularly scheduled courses; under C, give the number of Postdoctorals and/or Research Associates (defined above) who received their doctorates in 1966 or later.

Item 12–
Give the number of NSF Summer Traineeships in each category that your department could effectively use. Avoid unrealistic and inflated numbers, taking full cognizance of all other means of available support. Only U. S. Citizens enrolled in an advanced degree program may be appointed.

NATIONAL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1971
DEPARTMENTAL DATA SHEET

(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

1. Name and address of institution: 227 Doctorate-granting Institutions Applying in the 1971 GTP.
2. Department (or unit) covered by this data sheet: 3,071 Doctorate Science Departments
3. Person in Department (or unit) preparing this form: Name ______________________ Title ______________________
4. Highest degree offered in the Fall of 1970 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒
5. Number of degrees granted 7/1/69 through 6/30/70: BS 108,017 (also BA, etc.) MS 31,193 (also MA, etc. (Ex. MAT, etc.)) MAT 1,479 (MAT., etc.) Ph.D. 17,206 (Ph.D, D.Sc., etc

6. Major support sources (excluding tuition) of ALL Full-Time Graduate Students enrolled for Advanced Degrees (M.S. and Ph.D.) in the Fall 1970 (see item 6—instructions)			U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER	
						HEW								
			AEC	USDA	DOD	NDEA	PHS (NIH)	OTHER HEW	NASA	NSF	Other U. S. Government	U. S. Government Sub-total	This Institution and State and local government	Priv non prof four tion
TYPES OF SUPPORT			(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a—i)	(j)	(k
Fellowships and Traineeships	United States	1	414	26	324	4,830	9,295	1,172	566	7,623	1,882	26,132	5,355	1,92
	Foreign	2		10	16	31	137	26	32		603	855	1,978	92
Graduate Research Assistantships	United States	3	1,640	766	2,465	67	2,068	282	902	4,034	1,628	13,852	6,525	74
	Foreign	4	587	248	1,385	8	734	87	405	1,794	712	5,960	2,607	30
Graduate Teaching Assistantships	United States	5					42	20		124	87	273	28,085	12
	Foreign	6					12	5		50	29	96	6,865	2
Other Than Above	United States	7	76	56	1,134	3	70	43	73	292	1,062	2,809	2,036	17
	Foreign	8	41	8	15	2	21	3	10	40	139	279	344	8
Total	United States	9	2,130	848	3,923	4,900	11,475	1,517	1,541	12,073	4,659	43,066	42,001	2,96
Total	Foreign	10	628	266	1,416	41	904	121	447	1,884	1,483	7,190	11,794	1,33
TOTALS		11	2,758	1,114	5,339	4,941	12,379	1,638	1,988	13,957	6,142	50,256	53,795	4,29

7. The number of students included in the above table (item 6) who are:

(A) supported with full tuition from this institution 38,969. Include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source.

(B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 9,921.

(C) receiving than one self, loan

9. Part-time graduate students enrolled for advanced degrees Fall 1970 by level of study; do not include "special" students.

U. S. CITIZENS		FOREIGN		TOTAL
1st year	Beyond 1st	1st year	Beyond 1st	Part time
15,717	22,909	1,546	2,631	42,803

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY

Total	Nonteaching	Graduate
A	B	C
58,022	2,695	49,332

P

11. Number of Postdoctorals/Research Associates:

Total	Teaching	Recent Doctorals
A	B	C
8,940	807	6,079

DATION GRADUATE TRAINEESHIPS FOR 1971
RTMENTAL DATA SHEET
LEASE READ THE INSTRUCTIONS ON THE REVERSE)

Table D-1

SUMMARY OF RESPONSES FOR FALL 1970

stitutions Applying in the 1971 GTP.
torate Science Departments
__________ Title __________
NLY) Masters ☐ Ph.D. ☒
BS 108,017 also BA, etc. MS 31,193 also MA, etc. (Ex. MAT, etc.) MAT 1,479 MAT., etc. Ph.D. 17,206 Ph.D, D.Sc., etc.

U.S. GOVERNMENT (EXCLUDING LOANS)								OTHER U.S. (NON U.S. GOVERNMENT)						Foreign sources	ALL SOURCES		
	HEW																
DOD	NDEA	PHS (NIH)	OTHER HEW	NASA	NSF	Other U. S. Govern-ment	U. S. Govern-ment Sub-total	This Insti-tution and State and local govern-ment	Private non-profit founda-tions	Industry	Self loans, and family	Other	Other U. S. Sub-totals		Total	First year	Beyond first
(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a–i)	(j)	(k)	(l)	(m)	(n)	(j–n)	(o)	(p)	(q)	(r)
324	4,830	9,295	1,172	566	7,623	1,882	26,132	5,355	1,923	1,097	-----	277	8,652	57	34,841	10,609	24,232
16	31	137	26	32		603	855	1,978	923	220	-----	219	3,340	1,380	5,575	1,897	3,678
2,465	67	2,068	282	902	4,034	1,628	13,852	6,525	744	608	-----	182	8,059		21,911	4,691	17,220
1,385	8	734	87	405	1,794	712	5,960	2,607	309	296	-----	68	3,280	60	9,300	1,780	7,520
		42	20		124	87	273	28,085	120	9	-----	104	28,318		28,591	9,109	19,482
		12	5		50	29	96	6,865	20	4	-----	18	6,907		7,003	1,832	5,171
1,134	3	70	43	73	292	1,062	2,809	2,036	177	1,460	22,874	1,507	28,054		30,863	13,263	17,600
15	2	21	3	10	40	139	279	344	81	194	5,642	396	6,657	950	7,886	3,973	3,913
3,923	4,900	11,475	1,517	1,541	12,073	4,659	43,066	42,001	2,964	3,174	22,874	2,070	73,083	57	116,206	37,672	78,534
1,416	41	904	121	447	1,884	1,483	7,190	11,794	1,333	714	5,642	701	20,184	2,390	29,764	9,482	20,282
5,339	4,941	12,379	1,638	1,988	13,957	6,142	50,256	53,795	4,297	3,888	28,516	2,771	93,267	2,447	145,970	47,154	98,816

who are:
9.
ent

(B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 9,921.

(C) receiving support from more than one source, exclusive of self, loans, and family 9,614.

8. Number of "special" students enrolled for graduate course work (full- or part-time) in this department who are not enrolled for an advanced degree 9,353.

s.
1st
1

TOTAL
Part time
42,803

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL · FACULTY			PART TIME
Total	Nonteaching	Graduate	Graduate
A	B	C	D
58,022	2,695	49,332	9,718

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NATIONAL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1971
DEPARTMENTAL DATA SHEET
(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

1. Name and address of institution: 227 Doctorate-granting Institutions Applying in the 1971 GTP.
2. Department (or unit) covered by this data sheet: 676 Engineering Doctorate Departments
3. Person in Department (or unit) preparing this form: Name __________ Title __________
4. Highest degree offered in the Fall of 1970 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒
5. Number of degrees granted 7/1/69 through 6/30/70: BS 26,901 also BA, etc. MS 11,539 also MA, etc. (Ex. MAT, etc.) MAT 92 MAT., etc. Ph.D. 3,681 Ph.D, D.Sc., etc.

6. Major support sources (excluding tuition) of ALL Full-Time Graduate Students enrolled for Advanced Degrees (M.S. and Ph.D.) in the Fall 1970 (see item 6—instructions)			U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S	
						HEW								
			AEC	USDA	DOD	NDEA	PHS (NIH)	OTHER HEW	NASA	NSF	Other U. S. Government	U. S. Government Sub-total	This Institution and State and local government	Private non-profit foundations
TYPES OF SUPPORT			(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a–i)	(j)	(k)
Fellowships and Traineeships	United States	1	303	3	126	709	635	105	265	1,679	529	4,354	667	354
	Foreign	2			8	13	37	3	23		117	201	537	136
Graduate Research Assistantships	United States	3	278	23	1,169	10	231	52	411	741	404	3,319	1,332	118
	Foreign	4	215	25	997	6	119	44	294	787	401	2,888	1,167	100
Graduate Teaching Assistantships	United States	5					1			24	5	30	2,577	7
	Foreign	6					1			16	17	34	1,743	2
Other Than Above	United States	7	19	9	660	1	25		38	12	520	1,284	280	21
	Foreign	8	2		9	1	5		7	13	54	91	121	16
Total	United States	9	600	35	1,955	720	892	157	714	2,456	1,458	8,987	4,856	500
Total	Foreign	10	217	25	1,014	20	162	47	324	816	589	3,214	3,568	254
TOTALS		11	817	60	2,969	740	1,054	204	1,038	3,272	2,047	12,201	8,424	754

7. The number of students included in the above table (item 6) who are:
   - (A) supported with full tuition from this institution 7,081. Include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source.
   - (B) performing some regular teaching activity but who do not receive their main support from a graduate teaching assist[illegible] 1,251
   - (C) receiving s than one s self, loans,

9. Part-time graduate students enrolled for advanced degrees Fall 1970 by level of study; do not include "special" students.

U. S. CITIZENS 1st year	U. S. CITIZENS Beyond 1st	FOREIGN 1st year	FOREIGN Beyond 1st	TOTAL Part time
8,483	8,619	1,026	1,488	19,616

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY PA

Total A	Nonteaching B	Graduate C
11,830	434	9,985

11. Number of Postdoctorals/Research Associates:

Total A	Teaching B	Recent Doctorals C
791	86	478

ON GRADUATE TRAINEESHIPS FOR 1971
NTAL DATA SHEET
E READ THE INSTRUCTIONS ON THE REVERSE)

Table D-2

SUMMARY OF RESPONSES FOR FALL 1970

ons Applying in the 1971 GTP.
Doctorate Departments
Title
Masters ☐ Ph.D. ☒
,901 BA, etc. MS 11,539 also MA, etc. (Ex. MAT, etc.) MAT 92 MAT., etc. Ph.D. 3,681 Ph.D, D.Sc., etc.

	U.S. GOVERNMENT (EXCLUDING LOANS)							OTHER U.S. (NON U.S. GOVERNMENT)						Foreign sources	ALL SOURCES		
	HEW																
D	NDEA	PHS (NIH)	OTHER HEW	NASA	NSF	Other U. S. Govern-ment	U. S. Govern-ment Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family	Other	Other U. S. Sub-totals		Total	First year	Beyond first
	(d)	(e)	(f)	(g)	(h)	(i)	(a–i)	(j)	(k)	(l)	(m)	(n)	(j–n)	(o)	(p)	(q)	(r)
6	709	635	105	265	1,679	529	4,354	667	354	644	-----	33	1,698	14	6,066	2,582	3,484
3	13	37	3	23		117	201	537	136	99	-----	51	823	390	1,414	563	851
9	10	231	52	411	741	404	3,319	1,332	118	268	-----	21	1,739		5,058	1,503	3,555
7	6	119	44	294	787	401	2,888	1,167	100	177	-----	23	1,467	21	4,376	939	3,437
		1			24	5	30	2,577	7	3	-----	4	2,591		2,621	992	1,629
		1			16	17	34	1,743	2	1	-----		1,746		1,780	430	1,350
0	1	25		38	12	520	1,284	280	21	910	3,649	229	5,089		6,373	3,336	3,037
9	1	5		7	13	54	91	121	16	112	2,797	133	3,179	533	3,803	2,244	1,559
5	720	892	157	714	2,456	1,458	8,987	4,856	500	1,825	3,649	287	11,117	14	20,118	8,413	11,705
4	20	162	47	324	816	589	3,214	3,568	254	389	2,797	207	7,215	944	11,373	4,176	7,197
9	740	1,054	204	1,038	3,272	2,047	12,201	8,424	754	2,214	6,446	494	18,332	958	31,491	12,589	18,902

re:

(B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 1,251

(C) receiving support from more than one source, exclusive of self, loans, and family 1,856

8. Number of "special" students enrolled for graduate course work (full- or part-time) in this department who are not enrolled for an advanced degree 3,205

TOTAL
Part time
19,616

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY			PART TIME
Total	Nonteaching	Graduate	Graduate
A	B	C	D
11,830	434	9,985	1,/02

NATIONAL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1971
DEPARTMENTAL DATA SHEET

(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

1. Name and address of institution: 227 Doctorate-granting Institutions Applying in the 1971 GTP.
2. Department (or unit) covered by this data sheet: 523 Physical Sciences Doctorate Departments
3. Person in Department (or unit) preparing this form: Name ______________________ Title ______
4. Highest degree offered in the Fall of 1970 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒
5. Number of degrees granted 7/1/69 through 6/30/70: BS 9,102 (also BA, etc.) MS 3,857 (also MA, etc. (Ex. MAT, etc.)) MAT 277 (MAT., etc.) Ph.D. 4,170 (Ph.D, D.Sc., etc.)

6. Major support sources (excluding tuition) of ALL Full-Time Graduate Students enrolled for Advanced Degrees (M.S. and Ph.D.) in the Fall 1970 (see item 6—instructions)

TYPES OF SUPPORT			U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S.	
						HEW								
			AEC (a)	USDA (b)	DOD (c)	NDEA (d)	PHS (NIH) (e)	OTHER HEW (f)	NASA (g)	NSF (h)	Other U. S. Govern-ment (i)	U. S. Govern-ment Sub-total (a–i)	This Insti-tution and State and local govern-ment (j)	Private non-profit founda-tions (k)
Fellowships and Traineeships	United States	1	67		86	934	546	50	165	2,004	121	3,973	920	200
	Foreign	2			1	5	5	2	9		19	41	370	86
Graduate Research Assistantships	United States	3	1,222	6	966	3	536	36	392	2,191	484	5,836	703	241
	Foreign	4	318	5	287		185	14	89	663	125	1,686	222	71
Graduate Teaching Assistantships	United States	5					4			55	18	77	8,152	45
	Foreign	6					2	1		24	4	31	2,346	4
Other Than Above	United States	7	6	1	147		1	13	19	76	158	421	184	15
	Foreign	8	1		2			1	1	10	8	23	49	22
Total	United States	9	1,295	7	1,199	937	1,087	99	576	4,326	781	10,307	9,959	501
Total	Foreign	10	319	5	290	5	192	18	99	697	156	1,781	2,987	183
TOTALS		11	1,614	12	1,489	942	1,279	117	675	5,023	937	12,088	12,946	684

7. The number of students included in the above table (item 6) who are:
   (A) supported with full tuition from this institution 10,289. Include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source.
   (B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 2,534
   (C) receiving supp than one sour self, loans, an

9. Part-time graduate students enrolled for advanced degrees Fall 1970 by level of study; do not include "special" students.

U. S. CITIZENS		FOREIGN		TOTAL
1st year	Beyond 1st	1st year	Beyond 1st	Part time
934	2,859	111	222	4,126

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY			PART
Total	Nonteaching	Graduate	Gra
A	B	C	
10,925	309	9,785	1

11. Number of Postdoctorals/Research Associates:

Total	Teaching	Recent Doctorals
A	B	C
3,730	331	2,835

TE TRAINEESHIPS FOR 1971
SHEET
NSTRUCTIONS ON THE REVERSE)

Table D-3

SUMMARY OF RESPONSES FOR FALL 1970

the 1971 GTP.
Departments

______________ Title ______________________________
Ph.D. ☒

MS 3,857 also MA, etc. (Ex. MAT, etc.) MAT 277 MAT., etc. Ph.D. 4,170 Ph.D, D.Sc., etc.

ERNMENT (EXCLUDING LOANS)						OTHER U.S. (NON U.S. GOVERNMENT)						Foreign sources	ALL SOURCES		
EW															
HS IH) (e)	OTHER HEW (f)	NASA (g)	NSF (h)	Other U.S. Government (i)	U.S. Government Sub-total (a–i)	This Institution and State and local government (j)	Private non-profit foundations (k)	Industry (l)	Self loans, and family (m)	Other (n)	Other U.S. Sub-totals (j–n)	(o)	Total (p)	First year (q)	Beyond first (r)
546 5	50 2	165 9	2,004	121 19	3,973 41	920 370	200 86	260 53	----- -----	29 37	1,409 546	10 199	5,392 786	1,367 224	4,025 562
536 185	36 14	392 89	2,191 663	484 125	5,836 1,686	703 222	241 71	112 45	----- -----	96 18	1,152 356	 7	6,988 2,049	597 215	6,391 1,834
4 2	 1		55 24	18 4	77 31	8,152 2,346	45 4	1	----- -----	33 14	8,231 2,364		8,308 2,395	2,998 748	5,310 1,647
1	13 1	19 1	76 10	158 8	421 23	184 49	15 22	109 13	1,992 431	192 76	2,492 591	 77	2,913 691	944 330	1,969 361
,087 192	99 18	576 99	4,326 697	781 156	10,307 1,781	9,959 2,987	501 183	482 111	1,992 431	350 145	13,284 3,857	10 283	23,601 5,921	5,906 1,517	17,695 4,404
,279	117	675	5,023	937	12,088	12,946	684	593	2,423	495	17,141	293	29,522	7,423	22,099

performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 2,534

(C) receiving support from more than one source, exclusive of self, loans, and family 2,655

8. Number of "special" students enrolled for graduate course work (full- or part-time) in this department who are not enrolled for an advanced degree 1,169

L
ne
6

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY			PART TIME
Total A	Nonteaching B	Graduate C	Graduate D
10,925	309	9,785	1,142

NATIONAL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1971
DEPARTMENTAL DATA SHEET

(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

SUM

1. Name and address of institution: 227 Doctorate-granting Institutions Applying in the 1971 GTP.
2. Department (or unit) covered by this data sheet: 212 Mathematical Sciences Doctorate Departments
3. Person in Department (or unit) preparing this form: Name ______________ Title ______________
4. Highest degree offered in the Fall of 1970 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒
5. Number of degrees granted 7/1/69 through 6/30/70: BS 8,446 (also BA, etc.) MS 2,911 (also MA, etc. (Ex. MAT, etc.)) MAT 542 (MAT., etc.) Ph.D. 1,273 (Ph.D, D.Sc., etc.)

6. Major support sources (excluding tuition) of ALL Full-Time Graduate Students enrolled for Advanced Degrees (M.S. and Ph.D.) in the Fall 1970 (see item 6—instructions)

TYPES OF SUPPORT			U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S. GOVER			
						HEW										
			AEC (a)	USDA (b)	DOD (c)	NDEA (d)	PHS (NIH) (e)	OTHER HEW (f)	NASA (g)	NSF (h)	Other U. S. Government (i)	U. S. Government Sub-total (a—i)	This Institution and State and local government (j)	Private non-profit foundations (k)	Industry (l)	Self loans, and family (m)
Fellowships and Traineeships	United States	1	1	2	20	315	131	56	48	1,082	62	1,717	332	60	83	-----
	Foreign	2			2	3	2				14	21	180	36	7	-----
Graduate Research Assistantships	United States	3	27	5	144		13	2	12	334	24	561	266	12	5	-----
	Foreign	4	14	1	81		11		6	181	19	313	103	5	3	-----
Graduate Teaching Assistantships	United States	5						1		19	2	22	4,318	14		-----
	Foreign	6								6	2	8	1,002	9		-----
Other Than Above	United States	7			69		4	2	5	127	63	270	275	12	136	1,669
	Foreign	8		1	1		1			10	11	24	50	5	6	354
Total	United States	9	28	7	233	315	148	61	65	1,562	151	2,570	5,191	98	224	1,669
Total	Foreign	10	14	2	84	3	14		6	197	46	366	1,335	55	16	354
TOTALS		11	42	9	317	318	162	61	71	1,759	197	2,936	6,526	153	240	2,023

7. The number of students included in the above table (item 6) who are:

(A) supported with full tuition from this institution 3,845. Include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source.

(B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 871

(C) receiving support from more than one source, exclusive of self, loans, and family 1,170

9. Part-time graduate students enrolled for advanced degrees Fall 1970 by level of study; do not include "special" students.

U. S. CITIZENS		FOREIGN		TOTAL
1st year	Beyond 1st	1st year	Beyond 1st	Part time
1,410	2,271	75	130	3,886

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY			PART TIME
Total	Nonteaching	Graduate	Graduate
A	B	C	D
6,035	57	4,892	485

11. Number of Postdoctorals/Research Associates:

Total	Teaching	Recent Doctorals
A	B	C
255	60	166

N GRADUATE TRAINEESHIPS FOR 1971
NTAL DATA SHEET
READ THE INSTRUCTIONS ON THE REVERSE)

ns Applying in the 1971 GTP.
Sciences Doctorate Departments
________________ Title ________________
Masters ☐ Ph.D. ☒
,446 A, etc. | MS 2,911 also MA, etc. (Ex. MAT, etc.) | MAT 542 MAT., etc. | Ph.D. 1,273 Ph.D, D.Sc., etc.

Table D-4

SUMMARY OF RESPONSES FOR FALL 1970

U.S. GOVERNMENT (EXCLUDING LOANS)							OTHER U.S. (NON U.S. GOVERNMENT)						Foreign sources	ALL SOURCES		
HEW																
NDEA	PHS (NIH)	OTHER HEW	NASA	NSF	Other U. S. Govern-ment	U. S. Govern-ment Sub-total	This Insti-tution and State and local govern-ment	Private non-profit founda-tions	Industry	Self loans, and family	Other	Other U. S. Sub-totals		Total	First year	Beyond first
(d)	(e)	(f)	(g)	(h)	(i)	(a–i)	(j)	(k)	(l)	(m)	(n)	(j–n)	(o)	(p)	(q)	(r)
315 3	131 2	56	48	1,082	62 14	1,717 21	332 180	60 36	83 7	----- -----	13 3	488 226	2 102	2,207 349	829 112	1,378 237
	13 11	2	12 6	334 181	24 19	561 313	266 103	12 5	5 3	----- -----		283 111	1	844 425	166 82	678 343
		1		19 6	2 2	22 8	4,318 1,002	14 9		----- -----		4,332 1,011		4,354 1,019	1,381 251	2,973 768
	4 1	2	5	127 10	63 11	270 24	275 50	12 5	136 6	1,669 354	77 24	2,169 439	55	2,439 518	1,118 209	1,321 309
315 3	148 14	61	65 6	1,562 197	151 46	2,570 366	5,191 1,335	98 55	224 16	1,669 354	90 27	7,272 1,787	2 158	9,844 2,311	3,494 654	6,350 1,657
318	162	61	71	1,759	197	2,936	6,526	153	240	2,023	117	9,059	160	12,155	4,148	8,007

e:

(B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 871

(C) receiving support from more than one source, exclusive of self, loans, and family 1,170

8. Number of "special" students enrolled for graduate course work (full- or part-time) in this department who are not enrolled for an advanced degree 1,418

TOTAL
Part time
3,886

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY			PART TIME
Total	Nonteaching	Graduate	Graduate
A	B	C	D
6,035	57	4,892	485

NATIONAL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1971
DEPARTMENTAL DATA SHEET

(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

1. Name and address of institution: 227 Doctorate-granting Institutions Applying in the 1971 GTP.
2. Department (or unit) covered by this data sheet: 965 Life Science Doctorate Departments
3. Person in Department (or unit) preparing this form: Name ______________________ Title ______________________
4. Highest degree offered in the Fall of 1970 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒
5. Number of degrees granted 7/1/69 through 6/30/70: BS 18,954 (also BA, etc.) MS 4,365 (also MA, etc. (Ex. MAT, etc.)) MAT 351 (MAT., etc.) Ph.D. 3,693 (Ph.D, D.Sc., etc.)

6. Major support sources (excluding tuition) of ALL Full-Time Graduate Students enrolled for Advanced Degrees (M.S. and Ph.D.) in the Fall 1970 (see item 6—instructions)

			U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON U.S.			
						HEW										
			AEC	USDA	DOD	NDEA	PHS (NIH)	OTHER HEW	NASA	NSF	Other U. S. Government	U. S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Se lo an fa
TYPES OF SUPPORT			(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a—i)	(j)	(k)	(l)	
Fellowships and Traineeships	United States	1	42	13	40	969	4,577	208	40	1,353	223	7,465	912	317	51	- -
	Foreign	2		7	2	4	73	9			205	300	247	220	28	- -
Graduate Research Assistantships	United States	3	100	613	60	26	780	25	67	480	464	2,615	2,048	228	194	- -
	Foreign	4	38	183	12		365	15	13	111	115	852	669	94	66	- -
Graduate Teaching Assistantships	United States	5					21	9		15	45	90	5,668	29	5	- -
	Foreign	6					7	3		2	6	18	773	1	3	- -
Other Than Above	United States	7	4	34	36	1	18	18	6	56	115	288	322	34	115	4,
	Foreign	8	2	7	1		15		2	5	50	82	53	18	52	
Total	United States	9	146	660	136	996	5,396	260	113	1,904	847	10,458	8,950	608	365	4,
Total	Foreign	10	40	197	15	4	460	27	15	118	376	1,252	1,742	333	149	
TOTALS		11	186	857	151	1,000	5,856	287	128	2,022	1,223	11,710	10,692	941	514	4,

7. The number of students included in the above table (item 6) who are:

(A) supported with full tuition from this institution 7,607. Include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source.

(B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 3,170

(C) receiving support from m
than one source, exclusiv
self, loans, and family 1

9. Part-time graduate students enrolled for advanced degrees Fall 1970 by level of study; do not include "special" students.

U. S. CITIZENS		FOREIGN		TOTAL
1st year	Beyond 1st	1st year	Beyond 1st	Part time
993	2,517	81	227	3,818

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY			PART TIME
Total A	Nonteaching B	Graduate C	Graduate D
15,430	1,427	12,755	4,157

11. Number of Postdoctorals/Research Associates:

Total A	Teaching B	Recent Doctorals C
3,667	252	2,322

TION GRADUATE TRAINEESHIPS FOR 1971
MENTAL DATA SHEET
ASE READ THE INSTRUCTIONS ON THE REVERSE)

tutions Applying in the 1971 GTP.
nce Doctorate Departments

Title ______

Y) Masters ☐ Ph.D. ☒

18,954 MS 4,365 MAT 351 Ph.D. 3,693
lso BA, etc. also MA, etc. (Ex. MAT, etc.) MAT., etc. Ph.D, D.Sc., etc.

Table D-5

SUMMARY OF RESPONSES FOR FALL 1970

U.S. GOVERNMENT (EXCLUDING LOANS)								OTHER U.S. (NON U.S. GOVERNMENT)						Foreign sources	ALL SOURCES		
	HEW																
DOD	NDEA	PHS (NIH)	OTHER HEW	NASA	NSF	Other U. S. Govern-ment	U. S. Govern-ment Sub-total	This Insti-tution and State and local govern-ment	Private non-profit founda-tions	Industry	Self loans, and family	Other	Other U. S. Sub-totals		Total	First year	Beyond first
(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a–i)	(j)	(k)	(l)	(m)	(n)	(j–n)	(o)	(p)	(q)	(r)
40 2	969 4	4,577 73	208 9	40	1,353	223 205	7,465 300	912 247	317 220	51 28	----- -----	64 41	1,344 536	21 288	8,830 1,124	2,085 318	6,745 806
60 12	26	780 365	25 15	67 13	480 111	464 115	2,615 852	2,048 669	228 94	194 66	----- -----	61 25	2,531 854	 25	5,146 1,731	1,245 352	3,901 1,379
		21 7	9 3		15 2	45 6	90 18	5,668 773	29 1	5 3	----- -----	27 1	5,729 778		5,819 796	1,916 184	3,903 612
36 1	1	18 15	18	6 2	56 5	115 50	288 82	322 53	34 18	115 52	4,128 595	274 84	4,873 802	 177	5,161 1,061	2,268 468	2,893 593
136 15	996 4	5,396 460	260 27	113 15	1,904 118	847 376	10,458 1,252	8,950 1,742	608 333	365 149	4,128 595	426 151	14,477 2,970	21 490	24,956 4,712	7,514 1,322	17,442 3,390
151	1,000	5,856	287	128	2,022	1,223	11,710	10,692	941	514	4,723	577	17,447	511	29,668	8,836	20,832

o are:

t

(B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 3,170

(C) receiving support from more than one source, exclusive of self, loans, and family 1,916

8. Number of "special" students enrolled for graduate course work (full- or part-time) in this department who are not enrolled for an advanced degree 1,528

10. Numbers of faculty members:

	TOTAL Part time	FULL-TIME DEPARTMENTAL - FACULTY Total A	 Nonteaching B	 Graduate C	PART TIME Graduate D
st	3,818	15,430	1,427	12,755	4,157

NATIONAL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1971
DEPARTMENTAL DATA SHEET
(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

1. Name and address of institution: 227 Doctorate-granting Institutions Applying in the 1971 GTP.
2. Department (or unit) covered by this data sheet: 152 Psychology Doctorate Departments
3. Person in Department (or unit) preparing this form: Name ______________________ Title ______
4. Highest degree offered in the Fall of 1970 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒
5. Number of degrees granted 7/1/69 through 6/30/70:

BS also BA, etc.	MS also MA, etc. (Ex. MAT, etc.)	MAT MAT., etc.	Ph.D. Ph.D, D.Sc., etc.
14,285	1,877	18	1,561

6. Major support sources (excluding tuition) of ALL Full-Time Graduate Students enrolled for Advanced Degrees (M.S. and Ph.D.) in the Fall 1970 (see item 6—instructions)

		U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON		
					HEW									
TYPES OF SUPPORT		AEC (a)	USDA (b)	DOD (c)	NDEA (d)	PHS (NIH) (e)	OTHER HEW (f)	NASA (g)	NSF (h)	Other U.S. Govern-ment (i)	U. S. Govern-ment Sub-total (a–i)	This Insti-tution and State and local govern-ment (j)	Private non-profit founda-tions (k)	Industr (l)
Fellowships and Traineeships	United States 1	1		9	404	2,167	320	22	385	621	3,929	646	93	21
	Foreign 2					13	2			4	19	64	14	1
Graduate Research Assistantships	United States 3	2		95	25	434	125	13	124	103	921	589	55	25
	Foreign 4			5	2	33	9		8	14	71	42	4	4
Graduate Teaching Assistantships	United States 5					15	1		3	8	27	2,333	11	
	Foreign 6					2					2	126		
Other Than Above	United States 7			24	1	19	4	4	3	101	156	488	62	46
	Foreign 8			1			1				2	15	3	1
Total	United States 9	3		128	430	2,635	450	39	515	833	5,033	4,056	221	92
Total	Foreign 10			6	2	48	12		8	18	94	247	21	6
TOTALS	11	3		134	432	2,683	462	39	523	851	5,127	4,303	242	98

7. The number of students included in the above table (item 6) who are:

(A) supported with full tuition from this institution 2,850. Include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source.

(B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 851

(C) receiving support f than one source, ex self, loans, and fam

9. Part-time graduate students enrolled for advanced degrees Fall 1970 by level of study; do not include "special" students.

U. S. CITIZENS		FOREIGN		TOTAL
1st year	Beyond 1st	1st year	Beyond 1st	Part time
599	1,175	12	31	1,817

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY			PART TIM
Total A	Nonteaching B	Graduate C	Graduate D
3,657	131	3,330	810

11. Number of Postdoctorals/Research Associates:

Total A	Teaching B	Recent Doctorals C
272	36	180

DATION GRADUATE TRAINEESHIPS FOR 1971
RTMENTAL DATA SHEET
PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

nstitutions Applying in the 1971 GTP.
ology Doctorate Departments
Title
NLY) Masters ☐ Ph.D. ☒
BS 14,285 also BA, etc. MS 1,877 also MA, etc. (Ex. MAT, etc.) MAT 18 MAT., etc. Ph.D. 1,561 Ph.D, D.Sc., etc.

Table D-6

SUMMARY OF RESPONSES FOR FALL 1970

U.S. GOVERNMENT (EXCLUDING LOANS)								OTHER U.S. (NON U.S. GOVERNMENT)						Foreign sources	ALL SOURCES		
	HEW																
DOD	NDEA	PHS (NIH)	OTHER HEW	NASA	NSF	Other U.S. Government	U.S. Government Sub-total	This Institution and State and local government	Private non-profit foundations	Industry	Self loans, and family	Other	Other U.S. Sub-totals		Total	First year	Beyond first
(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a–i)	(j)	(k)	(l)	(m)	(n)	(j–n)	(o)	(p)	(q)	(r)
9	404	2,167 13	320 2	22	385	621 4	3,929 19	646 64	93 14	21 1	----- -----	42 7	802 86	2 17	4,733 122	1,357 33	3,376 89
95 5	25 2	434 33	125 9	13	124 8	103 14	921 71	589 42	55 4	25 4	----- -----	1	670 50	2	1,591 123	457 34	1,134 89
		15 2	1		3	8	27 2	2,333 126	11		----- -----	34 2	2,378 128		2,405 130	645 35	1,760 95
24 1	1	19	4 1	4	3	101	156 2	488 15	62 3	46 1	2,407 85	267 9	3,270 113	11	3,426 126	1,115 44	2,311 82
128 6	430 2	2,635 48	450 12	39	515 8	833 18	5,033 94	4,056 247	221 21	92 6	2,407 85	344 18	7,120 377	2 30	12,155 501	3,574 146	8,581 355
134	432	2,683	462	39	523	851	5,127	4,303	242	98	2,492	362	7,497	32	12,656	3,720	8,936

6) who are:
350.
out
nment

(B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 851

(C) receiving support from more than one source, exclusive of self, loans, and family 761

8. Number of "special" students enrolled for graduate course work (full- or part-time) in this department who are not enrolled for an advanced degree 499

nts.

ond 1st
31

TOTAL
Part time
1,817

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY			PART TIME
Total	Nonteaching	Graduate	Graduate
A	B	C	D
3,657	131	3,330	810

orals

NATIONAL SCIENCE FOUNDATION GRADUATE TRAINEESHIPS FOR 1971
DEPARTMENTAL DATA SHEET

(NOTE: BEFORE FILLING OUT PLEASE READ THE INSTRUCTIONS ON THE REVERSE)

1. Name and address of institution: 227 Doctorate-granting Institutions Applying in the 1971 GTP.
2. Department (or unit) covered by this data sheet: 543 Social Sciences Doctorate Departments
3. Person in Department (or unit) preparing this form: Name ______________________ Title ______________
4. Highest degree offered in the Fall of 1970 (CHECK ONE ONLY) Masters ☐ Ph.D. ☒
5. Number of degrees granted 7/1/69 through 6/30/70: BS 30,329 (also BA, etc.) MS 6,644 (also MA, etc. (Ex. MAT, etc.)) MAT 199 (MAT., etc.) Ph.D. 2,828 (Ph.D, D.Sc., etc.)

6. Major support sources (excluding tuition) of ALL Full-Time Graduate Students enrolled for Advanced Degrees (M.S. and Ph.D.) in the Fall 1970 (see item 6—instructions)		U.S. GOVERNMENT (EXCLUDING LOANS)										OTHER U.S. (NON		
					HEW									
		AEC	USDA	DOD	NDEA	PHS (NIH)	OTHER HEW	NASA	NSF	Other U. S. Govern-ment	U. S. Govern-ment Sub-total	This Insti-tution and State and local govern-ment	Private non-profit founda-tions	Industr
TYPES OF SUPPORT		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(a–i)	(j)	(k)	(l)
Fellowships and Traineeships	United States 1		8	43	1,499	1,239	433	26	1,120	326	4,694	1,878	899	38
	Foreign 2		3	3	6	7	10			244	273	580	431	32
Graduate Research Assistantships	United States 3	11	119	31	3	74	42	7	164	149	600	1,587	90	4
	Foreign 4	2	34	3		21	5	3	44	38	150	404	35	1
Graduate Teaching Assistantships	United States 5					1	9		8	9	27	5,037	14	
	Foreign 6						1		2		3	875	4	
Other Than Above	United States 7	47	12	198		3	6	1	18	105	390	487	33	144
	Foreign 8	36		1	1		1		2	16	57	56	17	10
Total	United States 9	58	139	272	1,502	1,317	490	34	1,310	589	5,711	8,989	1,036	186
Total	Foreign 10	38	37	7	7	28	17	3	48	298	483	1,915	487	43
TOTALS	11	96	176	279	1,509	1,345	507	37	1,358	887	6,194	10,904	1,523	229

7. The number of students included in the above table (item 6) who are:

(A) supported with full tuition from this institution 7,297. Include students in institutions charging no tuition, but not those whose tuition comes from the U. S. Government or a non-institutional source.

(B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 1,244

(C) receiving support fr
than one source, ex
self, loans, and fami

9. Part-time graduate students enrolled for advanced degrees Fall 1970 by level of study; do not include "special" students.

U. S. CITIZENS		FOREIGN		TOTAL
1st year	Beyond 1st	1st year	Beyond 1st	Part time
3,298	5,468	241	533	9,540

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY			PART TIME
Total	Nonteaching	Graduate	Graduate
A	B	C	D
10,145	337	8,585	1,422

11. Number of Postdoctorals/Research Associates:

Total	Teaching	Recent Doctorals
A	B	C
225	42	98

ADUATE TRAINEESHIPS FOR 1971
DATA SHEET
THE INSTRUCTIONS ON THE REVERSE)

ying in the 1971 GTP.
rate Departments

____________ Title ____________________

☐ Ph.D. ☒

MS 6,644 also MA, etc. (Ex. MAT, etc.) MAT 199 MAT., etc. Ph.D. 2,828 Ph.D, D.Sc., etc.

Table D-7

SUMMARY OF RESPONSES FOR FALL 1970

GOVERNMENT (EXCLUDING LOANS)						OTHER U.S. (NON U.S. GOVERNMENT)						Foreign sources	ALL SOURCES		
HEW															
PHS (NIH) (e)	OTHER HEW (f)	NASA (g)	NSF (h)	Other U. S. Govern-ment (i)	U. S. Govern-ment Sub-total (a–i)	This Insti-tution and State and local govern-ment (j)	Private non-profit founda-tions (k)	Industry (l)	Self loans, and family (m)	Other (n)	Other U. S. Sub-totals (j–n)	(o)	Total (p)	First year (q)	Beyond first (r)
1,239	433	26	1,120	326	4,694	1,878	899	38	.....	96	2,911	8	7,613	2,389	5,224
7	10			244	273	580	431	32	.....	80	1,123	384	1,780	647	1,133
74	42	7	164	149	600	1,587	90	4	.....	3	1,684		2,284	723	1,561
21	5	3	44	38	150	404	35	1	.....	2	442	4	596	158	438
1	9		8	9	27	5,037	14		.....	6	5,057		5,084	1,177	3,907
	1		2		3	875	4		.....	1	880		883	184	699
3	6	1	18	105	390	487	33	144	9,029	468	10,161		10,551	4,482	6,069
	1		2	16	57	56	17	10	1,380	70	1,533	97	1,687	678	1,009
1,317	490	34	1,310	589	5,711	8,989	1,036	186	9,029	573	19,813	8	25,532	8,771	16,761
28	17	3	48	298	483	1,915	487	43	1,380	153	3,978	485	4,946	1,667	3,279
1,345	507	37	1,358	887	6,194	10,904	1,523	229	10,409	726	23,791	493	30,478	10,438	20,040

(B) performing some regular teaching activity but who do not receive their major support from a graduate teaching assistantship 1,244

(C) receiving support from more than one source, exclusive of self, loans, and family 1,256

8. Number of "special" students enrolled for graduate course work (full- or part-time) in this department who are not enrolled for an advanced degree 1,534

OTAL
t time
,540

10. Numbers of faculty members:

FULL-TIME DEPARTMENTAL - FACULTY			PART TIME
Total	Nonteaching	Graduate	Graduate
A	B	C	D
10,145	337	8,585	1,422

☆ U. S. GOVERNMENT PRINTING OFFICE : 1971 O - 439-694